

PYROTRACER VIDEO

MODELE ----- CA 650

Modbus Communication Manual

1. Input Register Parameter Table

Address	Notation	Parameter	Scale Low	Scale High	Notes
0	AI1PV	AI1 process value	*1	*1	R
1	AI2PV	AI2 process value	*1	*1	R
2	AI3PV	AI3 process value	*1	*1	R
3	AI4PV	AI4 process value	*1	*1	R
4	AI5PV	AI5 process value	*1	*1	R
5	AI6PV	AI6 process value	*1	*1	R
6	AI7PV	AI7 process value	*1	*1	R
7	AI8PV	AI8 process value	*1	*1	R
8	AI9PV	AI9 process value	*1	*1	R
9	AI10PV	AI10 process value	*1	*1	R
10	AI11PV	AI11 process value	*1	*1	R
11	AI12PV	AI12 process value	*1	*1	R
12	AI13PV	AI13 process value	*1	*1	R
13	AI14PV	AI14 process value	*1	*1	R
14	AI15PV	AI15 process value	*1	*1	R
15	AI16PV	AI16 process value	*1	*1	R
16	AI17PV	AI17 process value	*1	*1	R
17	AI18PV	AI18 process value	*1	*1	R
18	MA1PV	Math1 process value	*1	*1	R
19	MA2PV	Math2 process value	*1	*1	R
20	MA3PV	Math3 process value	*1	*1	R
21	MA4PV	Math4 process value	*1	*1	R
22	MA5PV	Math5 process value	*1	*1	R
23	MA6PV	Math6 process value	*1	*1	R
24	MA7PV	Math7 process value	*1	*1	R
25	MA8PV	Math8 process value	*1	*1	R
26	MA9PV	Math9 process value	*1	*1	R
27	MA10PV	Math10 process value	*1	*1	R
28	MA11PV	Math11 process value	*1	*1	R
29	MA12PV	Math12 process value	*1	*1	R
30	MA13PV	Math13 process value	*1	*1	R
31	MA14PV	Math14 process value	*1	*1	R
32	MA15PV	Math15 process value	*1	*1	R
33	MA16PV	Math16 process value	*1	*1	R
34	MA17PV	Math17 process value	*1	*1	R
35	MA18PV	Math18 process value	*1	*1	R
36	CFCGF	Any AI or Math parameter change flag	0	65535	R

2. Holding Register Parameter Table

Address	Notation	Parameter	Scale Low	Scale High	Notes
0	VER	Version	0	65535	R
1	PLUS	Plus mode	0	65535	R
2	AI1DP	AI1 decimal point	0	65535	R/W
3	AI2DP	AI2 decimal point	0	65535	R/W
4	AI3DP	AI3 decimal point	0	65535	R/W
5	AI4DP	AI4 decimal point	0	65535	R/W
6	AI5DP	AI5 decimal point	0	65535	R/W
7	AI6DP	AI6 decimal point	0	65535	R/W
8	AI7DP	AI7 decimal point	0	65535	R/W
9	AI8DP	AI8 decimal point	0	65535	R/W
10	AI9DP	AI9 decimal point	0	65535	R/W
11	AI10DP	AI10 decimal point	0	65535	R/W
12	AI11DP	AI11 decimal point	0	65535	R/W
13	AI12DP	AI12 decimal point	0	65535	R/W
14	AI13DP	AI13 decimal point	0	65535	R/W
15	AI14DP	AI14 decimal point	0	65535	R/W
16	AI15DP	AI15 decimal point	0	65535	R/W
17	AI16DP	AI16 decimal point	0	65535	R/W
18	AI17DP	AI17 decimal point	0	65535	R/W
19	AI18DP	AI18 decimal point	0	65535	R/W
20	MA1DP	Math1 decimal point	0	65535	R/W
21	MA2DP	Math2 decimal point	0	65535	R/W
22	MA3DP	Math3 decimal point	0	65535	R/W
23	MA4DP	Math4 decimal point	0	65535	R/W
24	MA5DP	Math5 decimal point	0	65535	R/W
25	MA6DP	Math6 decimal point	0	65535	R/W
26	MA7DP	Math7 decimal point	0	65535	R/W
27	MA8DP	Math8 decimal point	0	65535	R/W
28	MA9DP	Math9 decimal point	0	65535	R/W
29	MA10DP	Math10 decimal point	0	65535	R/W
30	MA11DP	Math11 decimal point	0	65535	R/W
31	MA12DP	Math12 decimal point	0	65535	R/W
32	MA13DP	Math13 decimal point	0	65535	R/W
33	MA14DP	Math14 decimal point	0	65535	R/W
34	MA15DP	Math15 decimal point	0	65535	R/W
35	MA16DP	Math16 decimal point	0	65535	R/W
36	MA17DP	Math17 decimal point	0	65535	R/W
37	MA18DP	Math18 decimal point	0	65535	R/W
38	AI1FN	AI1 function no	0	65535	R
39	AI2FN	AI2 function no	0	65535	R
40	AI3FN	AI3 function no	0	65535	R
41	AI4FN	AI4 function no	0	65535	R
42	AI5FN	AI5 function no	0	65535	R
43	AI6FN	AI6 function no	0	65535	R
44	AI7FN	AI7 function no	0	65535	R

45	AI8FN	AI8 function no	0	65535	R
46	AI9FN	AI9 function no	0	65535	R
47	AI10FN	AI1 function no	0	65535	R
48	AI11FN	AI11 function no	0	65535	R
49	AI12FN	AI12 function no	0	65535	R
50	AI13FN	AI13 function no	0	65535	R
51	AI14FN	AI14 function no	0	65535	R
52	AI15FN	AI15 function no	0	65535	R
53	AI16FN	AI16 function no	0	65535	R
54	AI17FN	AI17 function no	0	65535	R
55	AI18FN	AI18 function no	0	65535	R
56	MA1EN	Math1 enable	0	65535	R/W
57	MA2EN	Math2 enable	0	65535	R/W
58	MA3EN	Math3 enable	0	65535	R/W
59	MA4EN	Math4 enable	0	65535	R/W
60	MA5EN	Math5 enable	0	65535	R/W
61	MA6EN	Math6 enable	0	65535	R/W
62	MA7EN	Math7 enable	0	65535	R/W
63	MA8EN	Math8 enable	0	65535	R/W
64	MA9EN	Math9 enable	0	65535	R/W
65	MA10EN	Math10 enable	0	65535	R/W
66	MA11EN	Math11 enable	0	65535	R/W
67	MA12EN	Math12 enable	0	65535	R/W
68	MA13EN	Math13 enable	0	65535	R/W
69	MA14EN	Math14 enable	0	65535	R/W
70	MA15EN	Math15 enable	0	65535	R/W
71	MA16EN	Math16 enable	0	65535	R/W
72	MA17EN	Math17 enable	0	65535	R/W
73	MA18EN	Math18 enable	0	65535	R/W
74	AI1RL	AI1 range low	*1	*1	R/W
75	AI2RL	AI2 range low	*1	*1	R/W
76	AI3RL	AI3 range low	*1	*1	R/W
77	AI4RL	AI4 range low	*1	*1	R/W
78	AI5RL	AI5 range low	*1	*1	R/W
79	AI6RL	AI6 range low	*1	*1	R/W
80	AI7RL	AI7 range low	*1	*1	R/W
81	AI8RL	AI8 range low	*1	*1	R/W
82	AI9RL	AI9 range low	*1	*1	R/W
83	AI10RL	AI10 range low	*1	*1	R/W
84	AI11RL	AI11 range low	*1	*1	R/W
85	AI12RL	AI12 range low	*1	*1	R/W
86	AI13RL	AI13 range low	*1	*1	R/W
87	AI14RL	AI14 range low	*1	*1	R/W
88	AI15RL	AI15 range low	*1	*1	R/W
89	AI16RL	AI16 range low	*1	*1	R/W
90	AI17RL	AI17 range low	*1	*1	R/W
91	AI18RL	AI18 range low	*1	*1	R/W
92	MA1RL	Math1 range low	*2	*2	R/W
93	MA2RL	Math2 range low	*2	*2	R/W

94	MA3RL	Math3 range low	*2	*2	R/W
95	MA4RL	Math4 range low	*2	*2	R/W
96	MA5RL	Math5 range low	*2	*2	R/W
97	MA6RL	Math6 range low	*2	*2	R/W
98	MA7RL	Math7 range low	*2	*2	R/W
99	MA8RL	Math8 range low	*2	*2	R/W
100	MA9RL	Math9 range low	*2	*2	R/W
101	MA10RL	Math10 range low	*2	*2	R/W
102	MA11RL	Math11 range low	*2	*2	R/W
103	MA12RL	Math12 range low	*2	*2	R/W
104	MA13RL	Math13 range low	*2	*2	R/W
105	MA14RL	Math14 range low	*2	*2	R/W
106	MA15RL	Math15 range low	*2	*2	R/W
107	MA16RL	Math16 range low	*2	*2	R/W
108	MA17RL	Math17 range low	*2	*2	R/W
109	MA18RL	Math18 range low	*2	*2	R/W
110	AI1RH	AI1 range high	*1	*1	R/W
111	AI2RH	AI2 range high	*1	*1	R/W
112	AI3RH	AI3 range high	*1	*1	R/W
113	AI4RH	AI4 range high	*1	*1	R/W
114	AI5RH	AI5 range high	*1	*1	R/W
115	AI6RH	AI6 range high	*1	*1	R/W
116	AI7RH	AI7 range high	*1	*1	R/W
117	AI8RH	AI8 range high	*1	*1	R/W
118	AI9RH	AI9 range high	*1	*1	R/W
119	AI10RH	AI10 range high	*1	*1	R/W
120	AI11RH	AI11 range high	*1	*1	R/W
121	AI12RH	AI12 range high	*1	*1	R/W
122	AI13RH	AI13 range high	*1	*1	R/W
123	AI14RH	AI14 range high	*1	*1	R/W
124	AI15RH	AI15 range high	*1	*1	R/W
125	AI16RH	AI16 range high	*1	*1	R/W
126	AI17RH	AI17 range high	*1	*1	R/W
127	AI18RH	AI18 range high	*1	*1	R/W
128	MA1RH	Math1 range high	*2	*2	R/W
129	MA2RH	Math2 range high	*2	*2	R/W
130	MA3RH	Math3 range high	*2	*2	R/W
131	MA4RH	Math4 range high	*2	*2	R/W
132	MA5RH	Math5 range high	*2	*2	R/W
133	MA6RH	Math6 range high	*2	*2	R/W
134	MA7RH	Math7 range high	*2	*2	R/W
135	MA8RH	Math8 range high	*2	*2	R/W
136	MA9RH	Math9 range high	*2	*2	R/W
137	MA10RH	Math10 range high	*2	*2	R/W
138	MA11RH	Math11 range high	*2	*2	R/W
139	MA12RH	Math12 range high	*2	*2	R/W
140	MA13RH	Math13 range high	*2	*2	R/W
141	MA14RH	Math14 range high	*2	*2	R/W
142	MA15RH	Math15 range high	*2	*2	R/W

143	MA16RH	Math16 range high	*2	*2	R/W
144	MA17RH	Math17 range high	*2	*2	R/W
145	MA18RH	Math18 range high	*2	*2	R/W
146	AI1UN1	AI1 unit char 1~2	0	65535	R/W
147	AI1UN2	AI1 unit char 3~4	0	65535	R/W
148	AI1UN3	AI1 unit char 5~6	0	65535	R/W
149	AI2UN1	AI2 unit char 1~2	0	65535	R/W
150	AI2UN2	AI2 unit char 3~4	0	65535	R/W
151	AI2UN3	AI2 unit char 5~6	0	65535	R/W
152	AI3UN1	AI3 unit char 1~2	0	65535	R/W
153	AI3UN2	AI3 unit char 3~4	0	65535	R/W
154	AI3UN3	AI3 unit char 5~6	0	65535	R/W
155	AI4UN1	AI4 unit char 1~2	0	65535	R/W
156	AI4UN2	AI4 unit char 3~4	0	65535	R/W
157	AI4UN3	AI4 unit char 5~6	0	65535	R/W
158	AI5UN1	AI5 unit char 1~2	0	65535	R/W
159	AI5UN2	AI5 unit char 3~4	0	65535	R/W
160	AI5UN3	AI5 unit char 5~6	0	65535	R/W
161	AI6UN1	AI6 unit char 1~2	0	65535	R/W
162	AI6UN2	AI6 unit char 3~4	0	65535	R/W
163	AI6UN3	AI6 unit char 5~6	0	65535	R/W
164	AI7UN1	AI7 unit char 1~2	0	65535	R/W
165	AI7UN2	AI7 unit char 3~4	0	65535	R/W
166	AI7UN3	AI7 unit char 5~6	0	65535	R/W
167	AI8UN1	AI8 unit char 1~2	0	65535	R/W
168	AI8UN2	AI8 unit char 3~4	0	65535	R/W
169	AI8UN3	AI8 unit char 5~6	0	65535	R/W
170	AI9UN1	AI9 unit char 1~2	0	65535	R/W
171	AI9UN2	AI9 unit char 3~4	0	65535	R/W
172	AI9UN3	AI9 unit char 5~6	0	65535	R/W
173	AI10UN1	AI10 unit char 1~2	0	65535	R/W
174	AI10UN2	AI10 unit char 3~4	0	65535	R/W
175	AI10UN3	AI10 unit char 5~6	0	65535	R/W
176	AI11UN1	AI11 unit char 1~2	0	65535	R/W
177	AI11UN2	AI11 unit char 3~4	0	65535	R/W
178	AI11UN3	AI11 unit char 5~6	0	65535	R/W
179	AI12UN1	AI12 unit char 1~2	0	65535	R/W
180	AI12UN2	AI12 unit char 3~4	0	65535	R/W
181	AI12UN3	AI12 unit char 5~6	0	65535	R/W
182	AI13UN1	AI13 unit char 1~2	0	65535	R/W
183	AI13UN2	AI13 unit char 3~4	0	65535	R/W
184	AI13UN3	AI13 unit char 5~6	0	65535	R/W
185	AI14UN1	AI14 unit char 1~2	0	65535	R/W
186	AI14UN2	AI14 unit char 3~4	0	65535	R/W
187	AI14UN3	AI14 unit char 5~6	0	65535	R/W
188	AI15UN1	AI15 unit char 1~2	0	65535	R/W
189	AI15UN2	AI15 unit char 3~4	0	65535	R/W
190	AI15UN3	AI15 unit char 5~6	0	65535	R/W
191	AI16UN1	AI16 unit char 1~2	0	65535	R/W

192	AI16UN2	AI16 unit char 3~4	0	65535	R/W
193	AI16UN3	AI16 unit char 5~6	0	65535	R/W
194	AI17UN1	AI17 unit char 1~2	0	65535	R/W
195	AI17UN2	AI17 unit char 3~4	0	65535	R/W
196	AI17UN3	AI17 unit char 5~6	0	65535	R/W
197	AI18UN1	AI18 unit char 1~2	0	65535	R/W
198	AI18UN2	AI18 unit char 3~4	0	65535	R/W
199	AI18UN3	AI18 unit char 5~6	0	65535	R/W
200	MA1UN1	Math1 unit char 1~2	0	65535	R/W
201	MA1UN2	Math1 unit char 3~4	0	65535	R/W
202	MA1UN3	Math1 unit char 5~6	0	65535	R/W
203	MA2UN1	Math2 unit char 1~2	0	65535	R/W
204	MA2UN2	Math2 unit char 3~4	0	65535	R/W
205	MA2UN3	Math2 unit char 5~6	0	65535	R/W
206	MA3UN1	Math3 unit char 1~2	0	65535	R/W
207	MA3UN2	Math3 unit char 3~4	0	65535	R/W
208	MA3UN3	Math3 unit char 5~6	0	65535	R/W
209	MA4UN1	Math4 unit char 1~2	0	65535	R/W
210	MA4UN2	Math4 unit char 3~4	0	65535	R/W
211	MA4UN3	Math4 unit char 5~6	0	65535	R/W
212	MA5UN1	Math5 unit char 1~2	0	65535	R/W
213	MA5UN2	Math5 unit char 3~4	0	65535	R/W
214	MA5UN3	Math5 unit char 5~6	0	65535	R/W
215	MA6UN1	Math6 unit char 1~2	0	65535	R/W
216	MA6UN2	Math6 unit char 3~4	0	65535	R/W
217	MA6UN3	Math6 unit char 5~6	0	65535	R/W
218	MA7UN1	Math7 unit char 1~2	0	65535	R/W
219	MA7UN2	Math7 unit char 3~4	0	65535	R/W
220	MA7UN3	Math7 unit char 5~6	0	65535	R/W
221	MA8UN1	Math8 unit char 1~2	0	65535	R/W
222	MA8UN2	Math8 unit char 3~4	0	65535	R/W
223	MA8UN3	Math8 unit char 5~6	0	65535	R/W
224	MA9UN1	Math9 unit char 1~2	0	65535	R/W
225	MA9UN2	Math9 unit char 3~4	0	65535	R/W
226	MA9UN3	Math9 unit char 5~6	0	65535	R/W
227	MA10UN1	Math10 unit char 1~2	0	65535	R/W
228	MA10UN2	Math10 unit char 3~4	0	65535	R/W
229	MA10UN3	Math10 unit char 5~6	0	65535	R/W
230	MA11UN1	Math11 unit char 1~2	0	65535	R/W
231	MA11UN2	Math11 unit char 3~4	0	65535	R/W
232	MA11UN3	Math11 unit char 5~6	0	65535	R/W
233	MA12UN1	Math12 unit char 1~2	0	65535	R/W
234	MA12UN2	Math12 unit char 3~4	0	65535	R/W
235	MA12UN3	Math12 unit char 5~6	0	65535	R/W
236	MA13UN1	Math13 unit char 1~2	0	65535	R/W
237	MA13UN2	Math13 unit char 3~4	0	65535	R/W
238	MA13UN3	Math13 unit char 5~6	0	65535	R/W
239	MA14UN1	Math14 unit char 1~2	0	65535	R/W
240	MA14UN2	Math14 unit char 3~4	0	65535	R/W

241	MA14UN3	Math14 unit char 5~6	0	65535	R/W
242	MA15UN1	Math15 unit char 1~2	0	65535	R/W
243	MA15UN2	Math15 unit char 3~4	0	65535	R/W
244	MA15UN3	Math15 unit char 5~6	0	65535	R/W
245	MA16UN1	Math16 unit char 1~2	0	65535	R/W
246	MA16UN2	Math16 unit char 3~4	0	65535	R/W
247	MA16UN3	Math16 unit char 5~6	0	65535	R/W
248	MA17UN1	Math17 unit char 1~2	0	65535	R/W
249	MA17UN2	Math17 unit char 3~4	0	65535	R/W
250	MA17UN3	Math17 unit char 5~6	0	65535	R/W
251	MA18UN1	Math18 unit char 1~2	0	65535	R/W
252	MA18UN2	Math18 unit char 3~4	0	65535	R/W
253	MA18UN3	Math18 unit char 5~6	0	65535	R/W
254	AI1NA1	AI1 name char 1~2	0	65535	R/W
255	AI1NA2	AI1 name char 3~4	0	65535	R/W
256	AI1NA3	AI1 name char 5~6	0	65535	R/W
257	AI2NA1	AI2 name char 1~2	0	65535	R/W
258	AI2NA2	AI2 name char 3~4	0	65535	R/W
259	AI2NA3	AI2 name char 5~6	0	65535	R/W
260	AI3NA1	AI3 name char 1~2	0	65535	R/W
261	AI3NA2	AI3 name char 3~4	0	65535	R/W
262	AI3NA3	AI3 name char 5~6	0	65535	R/W
263	AI4NA1	AI4 name char 1~2	0	65535	R/W
264	AI4NA2	AI4 name char 3~4	0	65535	R/W
265	AI4NA3	AI4 name char 5~6	0	65535	R/W
266	AI5NA1	AI5 name char 1~2	0	65535	R/W
267	AI5NA2	AI5 name char 3~4	0	65535	R/W
268	AI5NA3	AI5 name char 5~6	0	65535	R/W
269	AI6NA1	AI6 name char 1~2	0	65535	R/W
270	AI6NA2	AI6 name char 3~4	0	65535	R/W
271	AI6NA3	AI6 name char 5~6	0	65535	R/W
272	AI7NA1	AI7 name char 1~2	0	65535	R/W
273	AI7NA2	AI7 name char 3~4	0	65535	R/W
274	AI7NA3	AI7 name char 5~6	0	65535	R/W
275	AI8NA1	AI8 name char 1~2	0	65535	R/W
276	AI8NA2	AI8 name char 3~4	0	65535	R/W
277	AI8NA3	AI8 name char 5~6	0	65535	R/W
278	AI9NA1	AI9 name char 1~2	0	65535	R/W
279	AI9NA2	AI9 name char 3~4	0	65535	R/W
280	AI9NA3	AI9 name char 5~6	0	65535	R/W
281	AI10NA1	AI10 name char 1~2	0	65535	R/W
282	AI10NA2	AI10 name char 3~4	0	65535	R/W
283	AI10NA3	AI10 name char 5~6	0	65535	R/W
284	AI11NA1	AI11 name char 1~2	0	65535	R/W
285	AI11NA2	AI11 name char 3~4	0	65535	R/W
286	AI11NA3	AI11 name char 5~6	0	65535	R/W
287	AI12NA1	AI12 name char 1~2	0	65535	R/W
288	AI12NA2	AI12 name char 3~4	0	65535	R/W
289	AI12NA3	AI12 name char 5~6	0	65535	R/W

290	AI13NA1	AI13 name char 1~2	0	65535	R/W
291	AI13NA2	AI13 name char 3~4	0	65535	R/W
292	AI13NA3	AI13 name char 5~6	0	65535	R/W
293	AI14NA1	AI14 name char 1~2	0	65535	R/W
294	AI14NA2	AI14 name char 3~4	0	65535	R/W
295	AI14NA3	AI14 name char 5~6	0	65535	R/W
296	AI15NA1	AI15 name char 1~2	0	65535	R/W
297	AI15NA2	AI15 name char 3~4	0	65535	R/W
298	AI15NA3	AI15 name char 5~6	0	65535	R/W
299	AI16NA1	AI16 name char 1~2	0	65535	R/W
300	AI16NA2	AI16 name char 3~4	0	65535	R/W
301	AI16NA3	AI16 name char 5~6	0	65535	R/W
302	AI17NA1	AI17 name char 1~2	0	65535	R/W
303	AI17NA2	AI17 name char 3~4	0	65535	R/W
304	AI17NA3	AI17 name char 5~6	0	65535	R/W
305	AI18NA1	AI18 name char 1~2	0	65535	R/W
306	AI18NA2	AI18 name char 3~4	0	65535	R/W
307	AI18NA3	AI18 name char 5~6	0	65535	R/W
308	MA1NA1	Math1 name char 1~2	0	65535	R/W
309	MA1NA2	Math1 name char 3~4	0	65535	R/W
310	MA1NA3	Math1 name char 5~6	0	65535	R/W
311	MA2NA1	Math2 name char 1~2	0	65535	R/W
312	MA2NA2	Math2 name char 3~4	0	65535	R/W
313	MA2NA3	Math2 name char 5~6	0	65535	R/W
314	MA3NA1	Math3 name char 1~2	0	65535	R/W
315	MA3NA2	Math3 name char 3~4	0	65535	R/W
316	MA3NA3	Math3 name char 5~6	0	65535	R/W
317	MA4NA1	Math4 name char 1~2	0	65535	R/W
318	MA4NA2	Math4 name char 3~4	0	65535	R/W
319	MA4NA3	Math4 name char 5~6	0	65535	R/W
320	MA5NA1	Math5 name char 1~2	0	65535	R/W
321	MA5NA2	Math5 name char 3~4	0	65535	R/W
322	MA5NA3	Math5 name char 5~6	0	65535	R/W
323	MA6NA1	Math6 name char 1~2	0	65535	R/W
324	MA6NA2	Math6 name char 3~4	0	65535	R/W
325	MA6NA3	Math6 name char 5~6	0	65535	R/W
326	MA7NA1	Math7 name char 1~2	0	65535	R/W
327	MA7NA2	Math7 name char 3~4	0	65535	R/W
328	MA7NA3	Math7 name char 5~6	0	65535	R/W
329	MA8NA1	Math8 name char 1~2	0	65535	R/W
330	MA8NA2	Math8 name char 3~4	0	65535	R/W
331	MA8NA3	Math8 name char 5~6	0	65535	R/W
332	MA9NA1	Math9 name char 1~2	0	65535	R/W
333	MA9NA2	Math9 name char 3~4	0	65535	R/W
334	MA9NA3	Math9 name char 5~6	0	65535	R/W
335	MA10NA1	Math10 name char 1~2	0	65535	R/W
336	MA10NA2	Math10 name char 3~4	0	65535	R/W
337	MA10NA3	Math10 name char 5~6	0	65535	R/W
338	MA11NA1	Math11 name char 1~2	0	65535	R/W

339	MA11NA2	Math11 name char 3~4	0	65535	R/W
340	MA11NA3	Math11 name char 5~6	0	65535	R/W
341	MA12NA1	Math12 name char 1~2	0	65535	R/W
342	MA12NA2	Math12 name char 3~4	0	65535	R/W
343	MA12NA3	Math12 name char 5~6	0	65535	R/W
344	MA13NA1	Math13 name char 1~2	0	65535	R/W
345	MA13NA2	Math13 name char 3~4	0	65535	R/W
346	MA13NA3	Math13 name char 5~6	0	65535	R/W
347	MA14NA1	Math14 name char 1~2	0	65535	R/W
348	MA14NA2	Math14 name char 3~4	0	65535	R/W
349	MA14NA3	Math14 name char 5~6	0	65535	R/W
350	MA15NA1	Math15 name char 1~2	0	65535	R/W
351	MA15NA2	Math15 name char 3~4	0	65535	R/W
352	MA15NA3	Math15 name char 5~6	0	65535	R/W
353	MA16NA1	Math16 name char 1~2	0	65535	R/W
354	MA16NA2	Math16 name char 3~4	0	65535	R/W
355	MA16NA3	Math16 name char 5~6	0	65535	R/W
356	MA17NA1	Math17 name char 1~2	0	65535	R/W
357	MA17NA2	Math17 name char 3~4	0	65535	R/W
358	MA17NA3	Math17 name char 5~6	0	65535	R/W
359	MA18NA1	Math18 name char 1~2	0	65535	R/W
360	MA18NA2	Math18 name char 3~4	0	65535	R/W
361	MA18NA3	Math18 name char 5~6	0	65535	R/W
362	AI1ME	AI1 log method	0	65535	R/W
363	AI2ME	AI2 log method	0	65535	R/W
364	AI3ME	AI3 log method	0	65535	R/W
365	AI4ME	AI4 log method	0	65535	R/W
366	AI5ME	AI5 log method	0	65535	R/W
367	AI6ME	AI6 log method	0	65535	R/W
368	AI7ME	AI7 log method	0	65535	R/W
369	AI8ME	AI8 log method	0	65535	R/W
370	AI9ME	AI9 log method	0	65535	R/W
371	AI10ME	AI10 log method	0	65535	R/W
372	AI11ME	AI11 log method	0	65535	R/W
373	AI12ME	AI12 log method	0	65535	R/W
374	AI13ME	AI13 log method	0	65535	R/W
375	AI14ME	AI14 log method	0	65535	R/W
376	AI15ME	AI15 log method	0	65535	R/W
377	AI16ME	AI16 log method	0	65535	R/W
378	AI17ME	AI17 log method	0	65535	R/W
379	AI18ME	AI18 log method	0	65535	R/W
380	MA1ME	Math1 log method	0	65535	R/W
381	MA2ME	Math2 log method	0	65535	R/W
382	MA3ME	Math3 log method	0	65535	R/W
383	MA4ME	Math4 log method	0	65535	R/W
384	MA5ME	Math5 log method	0	65535	R/W
385	MA6ME	Math6 log method	0	65535	R/W
386	MA7ME	Math7 log method	0	65535	R/W
387	MA8ME	Math8 log method	0	65535	R/W

388	MA9ME	Math9 log method	0	65535	R/W
389	MA10ME	Math10 log method	0	65535	R/W
390	MA11ME	Math11 log method	0	65535	R/W
391	MA12ME	Math12 log method	0	65535	R/W
392	MA13ME	Math13 log method	0	65535	R/W
393	MA14ME	Math14 log method	0	65535	R/W
394	MA15ME	Math15 log method	0	65535	R/W
395	MA16ME	Math16 log method	0	65535	R/W
396	MA17ME	Math17 log method	0	65535	R/W
397	MA18ME	Math18 log method	0	65535	R/W
398	AI1SP	AI1 log speed	0	65535	R/W
399	AI2SP	AI2 log speed	0	65535	R/W
400	AI3SP	AI3 log speed	0	65535	R/W
401	AI4SP	AI4 log speed	0	65535	R/W
402	AI5SP	AI5 log speed	0	65535	R/W
403	AI6SP	AI6 log speed	0	65535	R/W
404	AI7SP	AI7 log speed	0	65535	R/W
405	AI8SP	AI8 log speed	0	65535	R/W
406	AI9SP	AI9 log speed	0	65535	R/W
407	AI10SP	AI10 log speed	0	65535	R/W
408	AI11SP	AI11 log speed	0	65535	R/W
409	AI12SP	AI12 log speed	0	65535	R/W
410	AI13SP	AI13 log speed	0	65535	R/W
411	AI14SP	AI14 log speed	0	65535	R/W
412	AI15SP	AI15 log speed	0	65535	R/W
413	AI16SP	AI16 log speed	0	65535	R/W
414	AI17SP	AI17 log speed	0	65535	R/W
415	AI18SP	AI18 log speed	0	65535	R/W
416	MA1SP	Math1 log speed	0	65535	R/W
417	MA2SP	Math2 log speed	0	65535	R/W
418	MA3SP	Math3 log speed	0	65535	R/W
419	MA4SP	Math4 log speed	0	65535	R/W
420	MA5SP	Math5 log speed	0	65535	R/W
421	MA6SP	Math6 log speed	0	65535	R/W
422	MA7SP	Math7 log speed	0	65535	R/W
423	MA8SP	Math8 log speed	0	65535	R/W
424	MA9SP	Math9 log speed	0	65535	R/W
425	MA10SP	Math10 log speed	0	65535	R/W
426	MA11SP	Math11 log speed	0	65535	R/W
427	MA12SP	Math12 log speed	0	65535	R/W
428	MA13SP	Math13 log speed	0	65535	R/W
429	MA14SP	Math14 log speed	0	65535	R/W
430	MA15SP	Math15 log speed	0	65535	R/W
431	MA16SP	Math16 log speed	0	65535	R/W
432	MA17SP	Math17 log speed	0	65535	R/W
433	MA18SP	Math18 log speed	0	65535	R/W
434	AI1OF	AI1 offset	*2	*2	R/W
435	AI2OF	AI2 offset	*2	*2	R/W
436	AI3OF	AI3 offset	*2	*2	R/W

437	AI4OF	AI4 offset	*2	*2	R/W
438	AI5OF	AI5 offset	*2	*2	R/W
439	AI6OF	AI6 offset	*2	*2	R/W
440	AI7OF	AI7 offset	*2	*2	R/W
441	AI8OF	AI8 offset	*2	*2	R/W
442	AI9OF	AI9 offset	*2	*2	R/W
443	AI10OF	AI10 offset	*2	*2	R/W
444	AI11OF	AI11 offset	*2	*2	R/W
445	AI12OF	AI12 offset	*2	*2	R/W
446	AI13OF	AI13 offset	*2	*2	R/W
447	AI14OF	AI14 offset	*2	*2	R/W
448	AI15OF	AI15 offset	*2	*2	R/W
449	AI16OF	AI16 offset	*2	*2	R/W
450	AI17OF	AI17 offset	*2	*2	R/W
451	AI18OF	AI18 offset	*2	*2	R/W
452	MA1OF	Math1 offset	*2	*2	R/W
453	MA2OF	Math2 offset	*2	*2	R/W
454	MA3OF	Math3 offset	*2	*2	R/W
455	MA4OF	Math4 offset	*2	*2	R/W
456	MA5OF	Math5 offset	*2	*2	R/W
457	MA6OF	Math6 offset	*2	*2	R/W
458	MA7OF	Math7 offset	*2	*2	R/W
459	MA8OF	Math8 offset	*2	*2	R/W
460	MA9OF	Math9 offset	*2	*2	R/W
461	MA10OF	Math10 offset	*2	*2	R/W
462	MA11OF	Math11 offset	*2	*2	R/W
463	MA12OF	Math12 offset	*2	*2	R/W
464	MA13OF	Math13 offset	*2	*2	R/W
465	MA14OF	Math14 offset	*2	*2	R/W
466	MA15OF	Math15 offset	*2	*2	R/W
467	MA16OF	Math16 offset	*2	*2	R/W
468	MA17OF	Math17 offset	*2	*2	R/W
469	MA18OF	Math18 offset	*2	*2	R/W
470	AI1GA	AI1 gain	*2	*2	R/W
471	AI2GA	AI2 gain	*2	*2	R/W
472	AI3GA	AI3 gain	*2	*2	R/W
473	AI4GA	AI4 gain	*2	*2	R/W
474	AI5GA	AI5 gain	*2	*2	R/W
475	AI6GA	AI6 gain	*2	*2	R/W
476	AI7GA	AI7 gain	*2	*2	R/W
477	AI8GA	AI8 gain	*2	*2	R/W
478	AI9GA	AI9 gain	*2	*2	R/W
479	AI10GA	AI10 gain	*2	*2	R/W
480	AI11GA	AI11 gain	*2	*2	R/W
481	AI12GA	AI12 gain	*2	*2	R/W
482	AI13GA	AI13 gain	*2	*2	R/W
483	AI14GA	AI14 gain	*2	*2	R/W
484	AI15GA	AI15 gain	*2	*2	R/W
485	AI16GA	AI16 gain	*2	*2	R/W

486	AI17GA	AI17 gain	*2	*2	R/W
487	AI18GA	AI18 gain	*2	*2	R/W
488	MA1GA	Math1 gain	*2	*2	R/W
489	MA2GA	Math2 gain	*2	*2	R/W
490	MA3GA	Math3 gain	*2	*2	R/W
491	MA4GA	Math4 gain	*2	*2	R/W
492	MA5GA	Math5 gain	*2	*2	R/W
493	MA6GA	Math6 gain	*2	*2	R/W
494	MA7GA	Math7 gain	*2	*2	R/W
495	MA8GA	Math8 gain	*2	*2	R/W
496	MA9GA	Math9 gain	*2	*2	R/W
497	MA10GA	Math10 gain	*2	*2	R/W
498	MA11GA	Math11 gain	*2	*2	R/W
499	MA12GA	Math12 gain	*2	*2	R/W
500	MA13GA	Math13 gain	*2	*2	R/W
501	MA14GA	Math14 gain	*2	*2	R/W
502	MA15GA	Math15 gain	*2	*2	R/W
503	MA16GA	Math16 gain	*2	*2	R/W
504	MA17GA	Math17 gain	*2	*2	R/W
505	MA18GA	Math18 gain	*2	*2	R/W
506	AI1EV1TP	AI1 event 1 type	0	65535	R/W
507	AI2EV1TP	AI2 event 1 type	0	65535	R/W
508	AI3EV1TP	AI3 event 1 type	0	65535	R/W
509	AI4EV1TP	AI4 event 1 type	0	65535	R/W
510	AI5EV1TP	AI5 event 1 type	0	65535	R/W
511	AI6EV1TP	AI6 event 1 type	0	65535	R/W
512	AI7EV1TP	AI7 event 1 type	0	65535	R/W
513	AI8EV1TP	AI8 event 1 type	0	65535	R/W
514	AI9EV1TP	AI9 event 1 type	0	65535	R/W
515	AI10EV1TP	AI10 event 1 type	0	65535	R/W
516	AI11EV1TP	AI11 event 1 type	0	65535	R/W
517	AI12EV1TP	AI12 event 1 type	0	65535	R/W
518	AI13EV1TP	AI13 event 1 type	0	65535	R/W
519	AI14EV1TP	AI14 event 1 type	0	65535	R/W
520	AI15EV1TP	AI15 event 1 type	0	65535	R/W
521	AI16EV1TP	AI16 event 1 type	0	65535	R/W
522	AI17EV1TP	AI17 event 1 type	0	65535	R/W
523	AI18EV1TP	AI18 event 1 type	0	65535	R/W
524	MA1EV1TP	Math1 event 1 type	0	65535	R/W
525	MA2EV1TP	Math2 event 1 type	0	65535	R/W
526	MA3EV1TP	Math3 event 1 type	0	65535	R/W
527	MA4EV1TP	Math4 event 1 type	0	65535	R/W
528	MA5EV1TP	Math5 event 1 type	0	65535	R/W
529	MA6EV1TP	Math6 event 1 type	0	65535	R/W
530	MA7EV1TP	Math7 event 1 type	0	65535	R/W
531	MA8EV1TP	Math8 event 1 type	0	65535	R/W
532	MA9EV1TP	Math9 event 1 type	0	65535	R/W
533	MA10EV1TP	Math10 event 1 type	0	65535	R/W
534	MA11EV1TP	Math11 event 1 type	0	65535	R/W

535	MA12EV1TP	Math12 event 1 type	0	65535	R/W
536	MA13EV1TP	Math13 event 1 type	0	65535	R/W
537	MA14EV1TP	Math14 event 1 type	0	65535	R/W
538	MA15EV1TP	Math15 event 1 type	0	65535	R/W
539	MA16EV1TP	Math16 event 1 type	0	65535	R/W
540	MA17EV1TP	Math17 event 1 type	0	65535	R/W
541	MA18EV1TP	Math18 event 1 type	0	65535	R/W
542	AI1EV1SP	AI1 event 1 set point	*1	*1	R/W
543	AI2EV1SP	AI2 event 1 set point	*1	*1	R/W
544	AI3EV1SP	AI3 event 1 set point	*1	*1	R/W
545	AI4EV1SP	AI4 event 1 set point	*1	*1	R/W
546	AI5EV1SP	AI5 event 1 set point	*1	*1	R/W
547	AI6EV1SP	AI6 event 1 set point	*1	*1	R/W
548	AI7EV1SP	AI7 event 1 set point	*1	*1	R/W
549	AI8EV1SP	AI8 event 1 set point	*1	*1	R/W
550	AI9EV1SP	AI9 event 1 set point	*1	*1	R/W
551	AI10EV1SP	AI10 event 1 set point	*1	*1	R/W
552	AI11EV1SP	AI11 event 1 set point	*1	*1	R/W
553	AI12EV1SP	AI12 event 1 set point	*1	*1	R/W
554	AI13EV1SP	AI13 event 1 set point	*1	*1	R/W
555	AI14EV1SP	AI14 event 1 set point	*1	*1	R/W
556	AI15EV1SP	AI15 event 1 set point	*1	*1	R/W
557	AI16EV1SP	AI16 event 1 set point	*1	*1	R/W
558	AI17EV1SP	AI17 event 1 set point	*1	*1	R/W
559	AI18EV1SP	AI18 event 1 set point	*1	*1	R/W
560	MA1EV1SP	Math1 event 1 set point	*2	*2	R/W
561	MA2EV1SP	Math2 event 1 set point	*2	*2	R/W
562	MA3EV1SP	Math3 event 1 set point	*2	*2	R/W
563	MA4EV1SP	Math4 event 1 set point	*2	*2	R/W
564	MA5EV1SP	Math5 event 1 set point	*2	*2	R/W
565	MA6EV1SP	Math6 event 1 set point	*2	*2	R/W
566	MA7EV1SP	Math7 event 1 set point	*2	*2	R/W
567	MA8EV1SP	Math8 event 1 set point	*2	*2	R/W
568	MA9EV1SP	Math9 event 1 set point	*2	*2	R/W
569	MA10EV1SP	Math10 event 1 set point	*2	*2	R/W
570	MA11EV1SP	Math11 event 1 set point	*2	*2	R/W
571	MA12EV1SP	Math12 event 1 set point	*2	*2	R/W
572	MA13EV1SP	Math13 event 1 set point	*2	*2	R/W
573	MA14EV1SP	Math14 event 1 set point	*2	*2	R/W
574	MA15EV1SP	Math15 event 1 set point	*2	*2	R/W
575	MA16EV1SP	Math16 event 1 set point	*2	*2	R/W
576	MA17EV1SP	Math17 event 1 set point	*2	*2	R/W
577	MA18EV1SP	Math18 event 1 set point	*2	*2	R/W
578	AI1EV1RT	AI1 event 1 rate of change time	0	65535	R/W
579	AI2EV1RT	AI2 event 1 rate of change time	0	65535	R/W
580	AI3EV1RT	AI3 event 1 rate of change time	0	65535	R/W
581	AI4EV1RT	AI4 event 1 rate of change time	0	65535	R/W
582	AI5EV1RT	AI5 event 1 rate of change time	0	65535	R/W
583	AI6EV1RT	AI6 event 1 rate of change time	0	65535	R/W

584	AI7EV1RT	AI7 event 1 rate of change time	0	65535	R/W
585	AI8EV1RT	AI8 event 1 rate of change time	0	65535	R/W
586	AI9EV1RT	AI9 event 1 rate of change time	0	65535	R/W
587	AI10EV1RT	AI10 event 1 rate of change time	0	65535	R/W
588	AI11EV1RT	AI11 event 1 rate of change time	0	65535	R/W
589	AI12EV1RT	AI12 event 1 rate of change time	0	65535	R/W
590	AI13EV1RT	AI13 event 1 rate of change time	0	65535	R/W
591	AI14EV1RT	AI14 event 1 rate of change time	0	65535	R/W
592	AI15EV1RT	AI15 event 1 rate of change time	0	65535	R/W
593	AI16EV1RT	AI16 event 1 rate of change time	0	65535	R/W
594	AI17EV1RT	AI17 event 1 rate of change time	0	65535	R/W
595	AI18EV1RT	AI18 event 1 rate of change time	0	65535	R/W
596	MA1EV1RT	Math1 event 1 rate of change time	0	65535	R/W
597	MA2EV1RT	Math2 event 1 rate of change time	0	65535	R/W
598	MA3EV1RT	Math3 event 1 rate of change time	0	65535	R/W
599	MA4EV1RT	Math4 event 1 rate of change time	0	65535	R/W
600	MA5EV1RT	Math5 event 1 rate of change time	0	65535	R/W
601	MA6EV1RT	Math6 event 1 rate of change time	0	65535	R/W
602	MA7EV1RT	Math7 event 1 rate of change time	0	65535	R/W
603	MA8EV1RT	Math8 event 1 rate of change time	0	65535	R/W
604	MA9EV1RT	Math9 event 1 rate of change time	0	65535	R/W
605	MA10EV1RT	Math10 event 1 rate of change time	0	65535	R/W
606	MA11EV1RT	Math11 event 1 rate of change time	0	65535	R/W
607	MA12EV1RT	Math12 event 1 rate of change time	0	65535	R/W
608	MA13EV1RT	Math13 event 1 rate of change time	0	65535	R/W
609	MA14EV1RT	Math14 event 1 rate of change time	0	65535	R/W
610	MA15EV1RT	Math15 event 1 rate of change time	0	65535	R/W
611	MA16EV1RT	Math16 event 1 rate of change time	0	65535	R/W
612	MA17EV1RT	Math17 event 1 rate of change time	0	65535	R/W
613	MA18EV1RT	Math18 event 1 rate of change time	0	65535	R/W
614	AI1EV1JB1	AI1 event 1 job 1	0	65535	R/W
615	AI2EV1JB1	AI2 event 1 job 1	0	65535	R/W
616	AI3EV1JB1	AI3 event 1 job 1	0	65535	R/W
617	AI4EV1JB1	AI4 event 1 job 1	0	65535	R/W
618	AI5EV1JB1	AI5 event 1 job 1	0	65535	R/W
619	AI6EV1JB1	AI6 event 1 job 1	0	65535	R/W
620	AI7EV1JB1	AI7 event 1 job 1	0	65535	R/W
621	AI8EV1JB1	AI8 event 1 job 1	0	65535	R/W
622	AI9EV1JB1	AI9 event 1 job 1	0	65535	R/W
623	AI10EV1JB1	AI10 event 1 job 1	0	65535	R/W
624	AI11EV1JB1	AI11 event 1 job 1	0	65535	R/W
625	AI12EV1JB1	AI12 event 1 job 1	0	65535	R/W
626	AI13EV1JB1	AI13 event 1 job 1	0	65535	R/W
627	AI14EV1JB1	AI14 event 1 job 1	0	65535	R/W
628	AI15EV1JB1	AI15 event 1 job 1	0	65535	R/W
629	AI16EV1JB1	AI16 event 1 job 1	0	65535	R/W
630	AI17EV1JB1	AI17 event 1 job 1	0	65535	R/W
631	AI18EV1JB1	AI18 event 1 job 1	0	65535	R/W
632	MA1EV1JB1	Math1 event 1 job 1	0	65535	R/W

633	MA2EV1JB1	Math2 event 1 job 1	0	65535	R/W
634	MA3EV1JB1	Math3 event 1 job 1	0	65535	R/W
635	MA4EV1JB1	Math4 event 1 job 1	0	65535	R/W
636	MA5EV1JB1	Math5 event 1 job 1	0	65535	R/W
637	MA6EV1JB1	Math6 event 1 job 1	0	65535	R/W
638	MA7EV1JB1	Math7 event 1 job 1	0	65535	R/W
639	MA8EV1JB1	Math8 event 1 job 1	0	65535	R/W
640	MA9EV1JB1	Math9 event 1 job 1	0	65535	R/W
641	MA10EV1JB1	Math10 event 1 job 1	0	65535	R/W
642	MA11EV1JB1	Math11 event 1 job 1	0	65535	R/W
643	MA12EV1JB1	Math12 event 1 job 1	0	65535	R/W
644	MA13EV1JB1	Math13 event 1 job 1	0	65535	R/W
645	MA14EV1JB1	Math14 event 1 job 1	0	65535	R/W
646	MA15EV1JB1	Math15 event 1 job 1	0	65535	R/W
647	MA16EV1JB1	Math16 event 1 job 1	0	65535	R/W
648	MA17EV1JB1	Math17 event 1 job 1	0	65535	R/W
649	MA18EV1JB1	Math18 event 1 job 1	0	65535	R/W
650	AI1EV1PM1	AI1 event 1 job 1 parameter	0	65535	R/W
651	AI2EV1PM1	AI2 event 1 job 1 parameter	0	65535	R/W
652	AI3EV1PM1	AI3 event 1 job 1 parameter	0	65535	R/W
653	AI4EV1PM1	AI4 event 1 job 1 parameter	0	65535	R/W
654	AI5EV1PM1	AI5 event 1 job 1 parameter	0	65535	R/W
655	AI6EV1PM1	AI6 event 1 job 1 parameter	0	65535	R/W
656	AI7EV1PM1	AI7 event 1 job 1 parameter	0	65535	R/W
657	AI8EV1PM1	AI8 event 1 job 1 parameter	0	65535	R/W
658	AI9EV1PM1	AI9 event 1 job 1 parameter	0	65535	R/W
659	AI10EV1PM1	AI10 event 1 job 1 parameter	0	65535	R/W
660	AI11EV1PM1	AI11 event 1 job 1 parameter	0	65535	R/W
661	AI12EV1PM1	AI12 event 1 job 1 parameter	0	65535	R/W
662	AI13EV1PM1	AI13 event 1 job 1 parameter	0	65535	R/W
663	AI14EV1PM1	AI14 event 1 job 1 parameter	0	65535	R/W
664	AI15EV1PM1	AI15 event 1 job 1 parameter	0	65535	R/W
665	AI16EV1PM1	AI16 event 1 job 1 parameter	0	65535	R/W
666	AI17EV1PM1	AI17 event 1 job 1 parameter	0	65535	R/W
667	AI18EV1PM1	AI18 event 1 job 1 parameter	0	65535	R/W
668	MA1EV1PM1	Math1 event 1 job 1 parameter	0	65535	R/W
669	MA2EV1PM1	Math2 event 1 job 1 parameter	0	65535	R/W
670	MA3EV1PM1	Math3 event 1 job 1 parameter	0	65535	R/W
671	MA4EV1PM1	Math4 event 1 job 1 parameter	0	65535	R/W
672	MA5EV1PM1	Math5 event 1 job 1 parameter	0	65535	R/W
673	MA6EV1PM1	Math6 event 1 job 1 parameter	0	65535	R/W
674	MA7EV1PM1	Math7 event 1 job 1 parameter	0	65535	R/W
675	MA8EV1PM1	Math8 event 1 job 1 parameter	0	65535	R/W
676	MA9EV1PM1	Math9 event 1 job 1 parameter	0	65535	R/W
677	MA10EV1PM1	Math10 event 1 job 1 parameter	0	65535	R/W
678	MA11EV1PM1	Math11 event 1 job 1 parameter	0	65535	R/W
679	MA12EV1PM1	Math12 event 1 job 1 parameter	0	65535	R/W
680	MA13EV1PM1	Math13 event 1 job 1 parameter	0	65535	R/W
681	MA14EV1PM1	Math14 event 1 job 1 parameter	0	65535	R/W

682	MA15EV1PM1	Math15 event 1 job 1 parameter	0	65535	R/W
683	MA16EV1PM1	Math16 event 1 job 1 parameter	0	65535	R/W
684	MA17EV1PM1	Math17 event 1 job 1 parameter	0	65535	R/W
685	MA18EV1PM1	Math18 event 1 job 1 parameter	0	65535	R/W
686	AI1EV1JB2	AI1 event 1 job 2	0	65535	R/W
687	AI2EV1JB2	AI2 event 1 job 2	0	65535	R/W
688	AI3EV1JB2	AI3 event 1 job 2	0	65535	R/W
689	AI4EV1JB2	AI4 event 1 job 2	0	65535	R/W
690	AI5EV1JB2	AI5 event 1 job 2	0	65535	R/W
691	AI6EV1JB2	AI6 event 1 job 2	0	65535	R/W
692	AI7EV1JB2	AI7 event 1 job 2	0	65535	R/W
693	AI8EV1JB2	AI8 event 1 job 2	0	65535	R/W
694	AI9EV1JB2	AI9 event 1 job 2	0	65535	R/W
695	AI10EV1JB2	AI10 event 1 job 2	0	65535	R/W
696	AI11EV1JB2	AI11 event 1 job 2	0	65535	R/W
697	AI12EV1JB2	AI12 event 1 job 2	0	65535	R/W
698	AI13EV1JB2	AI13 event 1 job 2	0	65535	R/W
699	AI14EV1JB2	AI14 event 1 job 2	0	65535	R/W
700	AI15EV1JB2	AI15 event 1 job 2	0	65535	R/W
701	AI16EV1JB2	AI16 event 1 job 2	0	65535	R/W
702	AI17EV1JB2	AI17 event 1 job 2	0	65535	R/W
703	AI18EV1JB2	AI18 event 1 job 2	0	65535	R/W
704	MA1EV1JB2	Math1 event 1 job 2	0	65535	R/W
705	MA2EV1JB2	Math2 event 1 job 2	0	65535	R/W
706	MA3EV1JB2	Math3 event 1 job 2	0	65535	R/W
707	MA4EV1JB2	Math4 event 1 job 2	0	65535	R/W
708	MA5EV1JB2	Math5 event 1 job 2	0	65535	R/W
709	MA6EV1JB2	Math6 event 1 job 2	0	65535	R/W
710	MA7EV1JB2	Math7 event 1 job 2	0	65535	R/W
711	MA8EV1JB2	Math8 event 1 job 2	0	65535	R/W
712	MA9EV1JB2	Math9 event 1 job 2	0	65535	R/W
713	MA10EV1JB2	Math10 event 1 job 2	0	65535	R/W
714	MA11EV1JB2	Math11 event 1 job 2	0	65535	R/W
715	MA12EV1JB2	Math12 event 1 job 2	0	65535	R/W
716	MA13EV1JB2	Math13 event 1 job 2	0	65535	R/W
717	MA14EV1JB2	Math14 event 1 job 2	0	65535	R/W
718	MA15EV1JB2	Math15 event 1 job 2	0	65535	R/W
719	MA16EV1JB2	Math16 event 1 job 2	0	65535	R/W
720	MA17EV1JB2	Math17 event 1 job 2	0	65535	R/W
721	MA18EV1JB2	Math18 event 1 job 2	0	65535	R/W
722	AI1EV1PM2	AI1 event 1 job 2 parameter	0	65535	R/W
723	AI2EV1PM2	AI2 event 1 job 2 parameter	0	65535	R/W
724	AI3EV1PM2	AI3 event 1 job 2 parameter	0	65535	R/W
725	AI4EV1PM2	AI4 event 1 job 2 parameter	0	65535	R/W
726	AI5EV1PM2	AI5 event 1 job 2 parameter	0	65535	R/W
727	AI6EV1PM2	AI6 event 1 job 2 parameter	0	65535	R/W
728	AI7EV1PM2	AI7 event 1 job 2 parameter	0	65535	R/W
729	AI8EV1PM2	AI8 event 1 job 2 parameter	0	65535	R/W
730	AI9EV1PM2	AI9 event 1 job 2 parameter	0	65535	R/W

731	AI10EV1PM2	AI10 event 1 job 2 parameter	0	65535	R/W
732	AI11EV1PM2	AI11 event 1 job 2 parameter	0	65535	R/W
733	AI12EV1PM2	AI12 event 1 job 2 parameter	0	65535	R/W
734	AI13EV1PM2	AI13 event 1 job 2 parameter	0	65535	R/W
735	AI14EV1PM2	AI14 event 1 job 2 parameter	0	65535	R/W
736	AI15EV1PM2	AI15 event 1 job 2 parameter	0	65535	R/W
737	AI16EV1PM2	AI16 event 1 job 2 parameter	0	65535	R/W
738	AI17EV1PM2	AI17 event 1 job 2 parameter	0	65535	R/W
739	AI18EV1PM2	AI18 event 1 job 2 parameter	0	65535	R/W
740	MA1EV1PM2	Math1 event 1 job 2 parameter	0	65535	R/W
741	MA2EV1PM2	Math2 event 1 job 2 parameter	0	65535	R/W
742	MA3EV1PM2	Math3 event 1 job 2 parameter	0	65535	R/W
743	MA4EV1PM2	Math4 event 1 job 2 parameter	0	65535	R/W
744	MA5EV1PM2	Math5 event 1 job 2 parameter	0	65535	R/W
745	MA6EV1PM2	Math6 event 1 job 2 parameter	0	65535	R/W
746	MA7EV1PM2	Math7 event 1 job 2 parameter	0	65535	R/W
747	MA8EV1PM2	Math8 event 1 job 2 parameter	0	65535	R/W
748	MA9EV1PM2	Math9 event 1 job 2 parameter	0	65535	R/W
749	MA10EV1PM2	Math10 event 1 job 2 parameter	0	65535	R/W
750	MA11EV1PM2	Math11 event 1 job 2 parameter	0	65535	R/W
751	MA12EV1PM2	Math12 event 1 job 2 parameter	0	65535	R/W
752	MA13EV1PM2	Math13 event 1 job 2 parameter	0	65535	R/W
753	MA14EV1PM2	Math14 event 1 job 2 parameter	0	65535	R/W
754	MA15EV1PM2	Math15 event 1 job 2 parameter	0	65535	R/W
755	MA16EV1PM2	Math16 event 1 job 2 parameter	0	65535	R/W
756	MA17EV1PM2	Math17 event 1 job 2 parameter	0	65535	R/W
757	MA18EV1PM2	Math18 event 1 job 2 parameter	0	65535	R/W
758	AI1EV2TP	AI1 event 2 type	0	65535	R/W
759	AI2EV2TP	AI2 event 2 type	0	65535	R/W
760	AI3EV2TP	AI3 event 2 type	0	65535	R/W
761	AI4EV2TP	AI4 event 2 type	0	65535	R/W
762	AI5EV2TP	AI5 event 2 type	0	65535	R/W
763	AI6EV2TP	AI6 event 2 type	0	65535	R/W
764	AI7EV2TP	AI7 event 2 type	0	65535	R/W
765	AI8EV2TP	AI8 event 2 type	0	65535	R/W
766	AI9EV2TP	AI9 event 2 type	0	65535	R/W
767	AI10EV2TP	AI10 event 2 type	0	65535	R/W
768	AI11EV2TP	AI11 event 2 type	0	65535	R/W
769	AI12EV2TP	AI12 event 2 type	0	65535	R/W
770	AI13EV2TP	AI13 event 2 type	0	65535	R/W
771	AI14EV2TP	AI14 event 2 type	0	65535	R/W
772	AI15EV2TP	AI15 event 2 type	0	65535	R/W
773	AI16EV2TP	AI16 event 2 type	0	65535	R/W
774	AI17EV2TP	AI17 event 2 type	0	65535	R/W
775	AI18EV2TP	AI18 event 2 type	0	65535	R/W
776	MA1EV2TP	Math1 event 2 type	0	65535	R/W
777	MA2EV2TP	Math2 event 2 type	0	65535	R/W
778	MA3EV2TP	Math3 event 2 type	0	65535	R/W
779	MA4EV2TP	Math4 event 2 type	0	65535	R/W

780	MA5EV2TP	Math5 event 2 type	0	65535	R/W
781	MA6EV2TP	Math6 event 2 type	0	65535	R/W
782	MA7EV2TP	Math7 event 2 type	0	65535	R/W
783	MA8EV2TP	Math8 event 2 type	0	65535	R/W
784	MA9EV2TP	Math9 event 2 type	0	65535	R/W
785	MA10EV2TP	Math10 event 2 type	0	65535	R/W
786	MA11EV2TP	Math11 event 2 type	0	65535	R/W
787	MA12EV2TP	Math12 event 2 type	0	65535	R/W
788	MA13EV2TP	Math13 event 2 type	0	65535	R/W
789	MA14EV2TP	Math14 event 2 type	0	65535	R/W
790	MA15EV2TP	Math15 event 2 type	0	65535	R/W
791	MA16EV2TP	Math16 event 2 type	0	65535	R/W
792	MA17EV2TP	Math17 event 2 type	0	65535	R/W
793	MA18EV2TP	Math18 event 2 type	0	65535	R/W
794	AI1EV2SP	AI1 event 2 set point	*1	*1	R/W
795	AI2EV2SP	AI2 event 2 set point	*1	*1	R/W
796	AI3EV2SP	AI3 event 2 set point	*1	*1	R/W
797	AI4EV2SP	AI4 event 2 set point	*1	*1	R/W
798	AI5EV2SP	AI5 event 2 set point	*1	*1	R/W
799	AI6EV2SP	AI6 event 2 set point	*1	*1	R/W
800	AI7EV2SP	AI7 event 2 set point	*1	*1	R/W
801	AI8EV2SP	AI8 event 2 set point	*1	*1	R/W
802	AI9EV2SP	AI9 event 2 set point	*1	*1	R/W
803	AI10EV2SP	AI10 event 2 set point	*1	*1	R/W
804	AI11EV2SP	AI11 event 2 set point	*1	*1	R/W
805	AI12EV2SP	AI12 event 2 set point	*1	*1	R/W
806	AI13EV2SP	AI13 event 2 set point	*1	*1	R/W
807	AI14EV2SP	AI14 event 2 set point	*1	*1	R/W
808	AI15EV2SP	AI15 event 2 set point	*1	*1	R/W
809	AI16EV2SP	AI16 event 2 set point	*1	*1	R/W
810	AI17EV2SP	AI17 event 2 set point	*1	*1	R/W
811	AI18EV2SP	AI18 event 2 set point	*1	*1	R/W
812	MA1EV2SP	Math1 event 2 set point	*2	*2	R/W
813	MA2EV2SP	Math2 event 2 set point	*2	*2	R/W
814	MA3EV2SP	Math3 event 2 set point	*2	*2	R/W
815	MA4EV2SP	Math4 event 2 set point	*2	*2	R/W
816	MA5EV2SP	Math5 event 2 set point	*2	*2	R/W
817	MA6EV2SP	Math6 event 2 set point	*2	*2	R/W
818	MA7EV2SP	Math7 event 2 set point	*2	*2	R/W
819	MA8EV2SP	Math8 event 2 set point	*2	*2	R/W
820	MA9EV2SP	Math9 event 2 set point	*2	*2	R/W
821	MA10EV2SP	Math10 event 2 set point	*2	*2	R/W
822	MA11EV2SP	Math11 event 2 set point	*2	*2	R/W
823	MA12EV2SP	Math12 event 2 set point	*2	*2	R/W
824	MA13EV2SP	Math13 event 2 set point	*2	*2	R/W
825	MA14EV2SP	Math14 event 2 set point	*2	*2	R/W
826	MA15EV2SP	Math15 event 2 set point	*2	*2	R/W
827	MA16EV2SP	Math16 event 2 set point	*2	*2	R/W
828	MA17EV2SP	Math17 event 2 set point	*2	*2	R/W

829	MA18EV2SP	Math18 event 2 set point	*2	*2	R/W
830	AI1EV2RT	AI1 event 2 rate of change time	0	65535	R/W
831	AI2EV2RT	AI2 event 2 rate of change time	0	65535	R/W
832	AI3EV2RT	AI3 event 2 rate of change time	0	65535	R/W
833	AI4EV2RT	AI4 event 2 rate of change time	0	65535	R/W
834	AI5EV2RT	AI5 event 2 rate of change time	0	65535	R/W
835	AI6EV2RT	AI6 event 2 rate of change time	0	65535	R/W
836	AI7EV2RT	AI7 event 2 rate of change time	0	65535	R/W
837	AI8EV2RT	AI8 event 2 rate of change time	0	65535	R/W
838	AI9EV2RT	AI9 event 2 rate of change time	0	65535	R/W
839	AI10EV2RT	AI10 event 2 rate of change time	0	65535	R/W
840	AI11EV2RT	AI11 event 2 rate of change time	0	65535	R/W
841	AI12EV2RT	AI12 event 2 rate of change time	0	65535	R/W
842	AI13EV2RT	AI13 event 2 rate of change time	0	65535	R/W
843	AI14EV2RT	AI14 event 2 rate of change time	0	65535	R/W
844	AI15EV2RT	AI15 event 2 rate of change time	0	65535	R/W
845	AI16EV2RT	AI16 event 2 rate of change time	0	65535	R/W
846	AI17EV2RT	AI17 event 2 rate of change time	0	65535	R/W
847	AI18EV2RT	AI18 event 2 rate of change time	0	65535	R/W
848	MA1EV2RT	Math1 event 2 rate of change time	0	65535	R/W
849	MA2EV2RT	Math2 event 2 rate of change time	0	65535	R/W
850	MA3EV2RT	Math3 event 2 rate of change time	0	65535	R/W
851	MA4EV2RT	Math4 event 2 rate of change time	0	65535	R/W
852	MA5EV2RT	Math5 event 2 rate of change time	0	65535	R/W
853	MA6EV2RT	Math6 event 2 rate of change time	0	65535	R/W
854	MA7EV2RT	Math7 event 2 rate of change time	0	65535	R/W
855	MA8EV2RT	Math8 event 2 rate of change time	0	65535	R/W
856	MA9EV2RT	Math9 event 2 rate of change time	0	65535	R/W
857	MA10EV2RT	Math10 event 2 rate of change time	0	65535	R/W
858	MA11EV2RT	Math11 event 2 rate of change time	0	65535	R/W
859	MA12EV2RT	Math12 event 2 rate of change time	0	65535	R/W
860	MA13EV2RT	Math13 event 2 rate of change time	0	65535	R/W
861	MA14EV2RT	Math14 event 2 rate of change time	0	65535	R/W
862	MA15EV2RT	Math15 event 2 rate of change time	0	65535	R/W
863	MA16EV2RT	Math16 event 2 rate of change time	0	65535	R/W
864	MA17EV2RT	Math17 event 2 rate of change time	0	65535	R/W
865	MA18EV2RT	Math18 event 2 rate of change time	0	65535	R/W
866	AI1EV2JB1	AI1 event 2 job 1	0	65535	R/W
867	AI2EV2JB1	AI2 event 2 job 1	0	65535	R/W
868	AI3EV2JB1	AI3 event 2 job 1	0	65535	R/W
869	AI4EV2JB1	AI4 event 2 job 1	0	65535	R/W
870	AI5EV2JB1	AI5 event 2 job 1	0	65535	R/W
871	AI6EV2JB1	AI6 event 2 job 1	0	65535	R/W
872	AI7EV2JB1	AI7 event 2 job 1	0	65535	R/W
873	AI8EV2JB1	AI8 event 2 job 1	0	65535	R/W
874	AI9EV2JB1	AI9 event 2 job 1	0	65535	R/W
875	AI10EV2JB1	AI10 event 2 job 1	0	65535	R/W
876	AI11EV2JB1	AI11 event 2 job 1	0	65535	R/W
877	AI12EV2JB1	AI12 event 2 job 1	0	65535	R/W

878	AI13EV2JB1	AI13 event 2 job 1	0	65535	R/W
879	AI14EV2JB1	AI14 event 2 job 1	0	65535	R/W
880	AI15EV2JB1	AI15 event 2 job 1	0	65535	R/W
881	AI16EV2JB1	AI16 event 2 job 1	0	65535	R/W
882	AI17EV2JB1	AI17 event 2 job 1	0	65535	R/W
883	AI18EV2JB1	AI18 event 2 job 1	0	65535	R/W
884	MA1EV2JB1	Math1 event 2 job 1	0	65535	R/W
885	MA2EV2JB1	Math2 event 2 job 1	0	65535	R/W
886	MA3EV2JB1	Math3 event 2 job 1	0	65535	R/W
887	MA4EV2JB1	Math4 event 2 job 1	0	65535	R/W
888	MA5EV2JB1	Math5 event 2 job 1	0	65535	R/W
889	MA6EV2JB1	Math6 event 2 job 1	0	65535	R/W
890	MA7EV2JB1	Math7 event 2 job 1	0	65535	R/W
891	MA8EV2JB1	Math8 event 2 job 1	0	65535	R/W
892	MA9EV2JB1	Math9 event 2 job 1	0	65535	R/W
893	MA10EV2JB1	Math10 event 2 job 1	0	65535	R/W
894	MA11EV2JB1	Math11 event 2 job 1	0	65535	R/W
895	MA12EV2JB1	Math12 event 2 job 1	0	65535	R/W
896	MA13EV2JB1	Math13 event 2 job 1	0	65535	R/W
897	MA14EV2JB1	Math14 event 2 job 1	0	65535	R/W
898	MA15EV2JB1	Math15 event 2 job 1	0	65535	R/W
899	MA16EV2JB1	Math16 event 2 job 1	0	65535	R/W
900	MA17EV2JB1	Math17 event 2 job 1	0	65535	R/W
901	MA18EV2JB1	Math18 event 2 job 1	0	65535	R/W
902	AI1EV2PM1	AI1 event 2 job 1 parameter	0	65535	R/W
903	AI2EV2PM1	AI2 event 2 job 1 parameter	0	65535	R/W
904	AI3EV2PM1	AI3 event 2 job 1 parameter	0	65535	R/W
905	AI4EV2PM1	AI4 event 2 job 1 parameter	0	65535	R/W
906	AI5EV2PM1	AI5 event 2 job 1 parameter	0	65535	R/W
907	AI6EV2PM1	AI6 event 2 job 1 parameter	0	65535	R/W
908	AI7EV2PM1	AI7 event 2 job 1 parameter	0	65535	R/W
909	AI8EV2PM1	AI8 event 2 job 1 parameter	0	65535	R/W
910	AI9EV2PM1	AI9 event 2 job 1 parameter	0	65535	R/W
911	AI10EV2PM1	AI10 event 2 job 1 parameter	0	65535	R/W
912	AI11EV2PM1	AI11 event 2 job 1 parameter	0	65535	R/W
913	AI12EV2PM1	AI12 event 2 job 1 parameter	0	65535	R/W
914	AI13EV2PM1	AI13 event 2 job 1 parameter	0	65535	R/W
915	AI14EV2PM1	AI14 event 2 job 1 parameter	0	65535	R/W
916	AI15EV2PM1	AI15 event 2 job 1 parameter	0	65535	R/W
917	AI16EV2PM1	AI16 event 2 job 1 parameter	0	65535	R/W
918	AI17EV2PM1	AI17 event 2 job 1 parameter	0	65535	R/W
919	AI18EV2PM1	AI18 event 2 job 1 parameter	0	65535	R/W
920	MA1EV2PM1	Math1 event 2 job 1 parameter	0	65535	R/W
921	MA2EV2PM1	Math2 event 2 job 1 parameter	0	65535	R/W
922	MA3EV2PM1	Math3 event 2 job 1 parameter	0	65535	R/W
923	MA4EV2PM1	Math4 event 2 job 1 parameter	0	65535	R/W
924	MA5EV2PM1	Math5 event 2 job 1 parameter	0	65535	R/W
925	MA6EV2PM1	Math6 event 2 job 1 parameter	0	65535	R/W
926	MA7EV2PM1	Math7 event 2 job 1 parameter	0	65535	R/W

927	MA8EV2PM1	Math8 event 2 job 1 parameter	0	65535	R/W
928	MA9EV2PM1	Math9 event 2 job 1 parameter	0	65535	R/W
929	MA10EV2PM1	Math10 event 2 job 1 parameter	0	65535	R/W
930	MA11EV2PM1	Math11 event 2 job 1 parameter	0	65535	R/W
931	MA12EV2PM1	Math12 event 2 job 1 parameter	0	65535	R/W
932	MA13EV2PM1	Math13 event 2 job 1 parameter	0	65535	R/W
933	MA14EV2PM1	Math14 event 2 job 1 parameter	0	65535	R/W
934	MA15EV2PM1	Math15 event 2 job 1 parameter	0	65535	R/W
935	MA16EV2PM1	Math16 event 2 job 1 parameter	0	65535	R/W
936	MA17EV2PM1	Math17 event 2 job 1 parameter	0	65535	R/W
937	MA18EV2PM1	Math18 event 2 job 1 parameter	0	65535	R/W
938	AI1EV2JB2	AI1 event 2 job 2	0	65535	R/W
939	AI2EV2JB2	AI2 event 2 job 2	0	65535	R/W
940	AI3EV2JB2	AI3 event 2 job 2	0	65535	R/W
941	AI4EV2JB2	AI4 event 2 job 2	0	65535	R/W
942	AI5EV2JB2	AI5 event 2 job 2	0	65535	R/W
943	AI6EV2JB2	AI6 event 2 job 2	0	65535	R/W
944	AI7EV2JB2	AI7 event 2 job 2	0	65535	R/W
945	AI8EV2JB2	AI8 event 2 job 2	0	65535	R/W
946	AI9EV2JB2	AI9 event 2 job 2	0	65535	R/W
947	AI10EV2JB2	AI10 event 2 job 2	0	65535	R/W
948	AI11EV2JB2	AI11 event 2 job 2	0	65535	R/W
949	AI12EV2JB2	AI12 event 2 job 2	0	65535	R/W
950	AI13EV2JB2	AI13 event 2 job 2	0	65535	R/W
951	AI14EV2JB2	AI14 event 2 job 2	0	65535	R/W
952	AI15EV2JB2	AI15 event 2 job 2	0	65535	R/W
953	AI16EV2JB2	AI16 event 2 job 2	0	65535	R/W
954	AI17EV2JB2	AI17 event 2 job 2	0	65535	R/W
955	AI18EV2JB2	AI18 event 2 job 2	0	65535	R/W
956	MA1EV2JB2	Math1 event 2 job 2	0	65535	R/W
957	MA2EV2JB2	Math2 event 2 job 2	0	65535	R/W
958	MA3EV2JB2	Math3 event 2 job 2	0	65535	R/W
959	MA4EV2JB2	Math4 event 2 job 2	0	65535	R/W
960	MA5EV2JB2	Math5 event 2 job 2	0	65535	R/W
961	MA6EV2JB2	Math6 event 2 job 2	0	65535	R/W
962	MA7EV2JB2	Math7 event 2 job 2	0	65535	R/W
963	MA8EV2JB2	Math8 event 2 job 2	0	65535	R/W
964	MA9EV2JB2	Math9 event 2 job 2	0	65535	R/W
965	MA10EV2JB2	Math10 event 2 job 2	0	65535	R/W
966	MA11EV2JB2	Math11 event 2 job 2	0	65535	R/W
967	MA12EV2JB2	Math12 event 2 job 2	0	65535	R/W
968	MA13EV2JB2	Math13 event 2 job 2	0	65535	R/W
969	MA14EV2JB2	Math14 event 2 job 2	0	65535	R/W
970	MA15EV2JB2	Math15 event 2 job 2	0	65535	R/W
971	MA16EV2JB2	Math16 event 2 job 2	0	65535	R/W
972	MA17EV2JB2	Math17 event 2 job 2	0	65535	R/W
973	MA18EV2JB2	Math18 event 2 job 2	0	65535	R/W
974	AI1EV2PM2	AI1 event 2 job 2 parameter	0	65535	R/W
975	AI2EV2PM2	AI2 event 2 job 2 parameter	0	65535	R/W

976	AI3EV2PM2	AI3 event 2 job 2 parameter	0	65535	R/W
977	AI4EV2PM2	AI4 event 2 job 2 parameter	0	65535	R/W
978	AI5EV2PM2	AI5 event 2 job 2 parameter	0	65535	R/W
979	AI6EV2PM2	AI6 event 2 job 2 parameter	0	65535	R/W
980	AI7EV2PM2	AI7 event 2 job 2 parameter	0	65535	R/W
981	AI8EV2PM2	AI8 event 2 job 2 parameter	0	65535	R/W
982	AI9EV2PM2	AI9 event 2 job 2 parameter	0	65535	R/W
983	AI10EV2PM2	AI10 event 2 job 2 parameter	0	65535	R/W
984	AI11EV2PM2	AI11 event 2 job 2 parameter	0	65535	R/W
985	AI12EV2PM2	AI12 event 2 job 2 parameter	0	65535	R/W
986	AI13EV2PM2	AI13 event 2 job 2 parameter	0	65535	R/W
987	AI14EV2PM2	AI14 event 2 job 2 parameter	0	65535	R/W
988	AI15EV2PM2	AI15 event 2 job 2 parameter	0	65535	R/W
989	AI16EV2PM2	AI16 event 2 job 2 parameter	0	65535	R/W
990	AI17EV2PM2	AI17 event 2 job 2 parameter	0	65535	R/W
991	AI18EV2PM2	AI18 event 2 job 2 parameter	0	65535	R/W
992	MA1EV2PM2	Math1 event 2 job 2 parameter	0	65535	R/W
993	MA2EV2PM2	Math2 event 2 job 2 parameter	0	65535	R/W
994	MA3EV2PM2	Math3 event 2 job 2 parameter	0	65535	R/W
995	MA4EV2PM2	Math4 event 2 job 2 parameter	0	65535	R/W
996	MA5EV2PM2	Math5 event 2 job 2 parameter	0	65535	R/W
997	MA6EV2PM2	Math6 event 2 job 2 parameter	0	65535	R/W
998	MA7EV2PM2	Math7 event 2 job 2 parameter	0	65535	R/W
999	MA8EV2PM2	Math8 event 2 job 2 parameter	0	65535	R/W
1000	MA9EV2PM2	Math9 event 2 job 2 parameter	0	65535	R/W
1001	MA10EV2PM2	Math10 event 2 job 2 parameter	0	65535	R/W
1002	MA11EV2PM2	Math11 event 2 job 2 parameter	0	65535	R/W
1003	MA12EV2PM2	Math12 event 2 job 2 parameter	0	65535	R/W
1004	MA13EV2PM2	Math13 event 2 job 2 parameter	0	65535	R/W
1005	MA14EV2PM2	Math14 event 2 job 2 parameter	0	65535	R/W
1006	MA15EV2PM2	Math15 event 2 job 2 parameter	0	65535	R/W
1007	MA16EV2PM2	Math16 event 2 job 2 parameter	0	65535	R/W
1008	MA17EV2PM2	Math17 event 2 job 2 parameter	0	65535	R/W
1009	MA18EV2PM2	Math18 event 2 job 2 parameter	0	65535	R/W
1010	AI1EV3TP	AI1 event 3 type	0	65535	R/W
1011	AI2EV3TP	AI2 event 3 type	0	65535	R/W
1012	AI3EV3TP	AI3 event 3 type	0	65535	R/W
1013	AI4EV3TP	AI4 event 3 type	0	65535	R/W
1014	AI5EV3TP	AI5 event 3 type	0	65535	R/W
1015	AI6EV3TP	AI6 event 3 type	0	65535	R/W
1016	AI7EV3TP	AI7 event 3 type	0	65535	R/W
1017	AI8EV3TP	AI8 event 3 type	0	65535	R/W
1018	AI9EV3TP	AI9 event 3 type	0	65535	R/W
1019	AI10EV3TP	AI10 event 3 type	0	65535	R/W
1020	AI11EV3TP	AI11 event 3 type	0	65535	R/W
1021	AI12EV3TP	AI12 event 3 type	0	65535	R/W
1022	AI13EV3TP	AI13 event 3 type	0	65535	R/W
1023	AI14EV3TP	AI14 event 3 type	0	65535	R/W
1024	AI15EV3TP	AI15 event 3 type	0	65535	R/W

1025	AI16EV3TP	AI16 event 3 type	0	65535	R/W
1026	AI17EV3TP	AI17 event 3 type	0	65535	R/W
1027	AI18EV3TP	AI18 event 3 type	0	65535	R/W
1028	MA1EV3TP	Math1 event 3 type	0	65535	R/W
1029	MA2EV3TP	Math2 event 3 type	0	65535	R/W
1030	MA3EV3TP	Math3 event 3 type	0	65535	R/W
1031	MA4EV3TP	Math4 event 3 type	0	65535	R/W
1032	MA5EV3TP	Math5 event 3 type	0	65535	R/W
1033	MA6EV3TP	Math6 event 3 type	0	65535	R/W
1034	MA7EV3TP	Math7 event 3 type	0	65535	R/W
1035	MA8EV3TP	Math8 event 3 type	0	65535	R/W
1036	MA9EV3TP	Math9 event 3 type	0	65535	R/W
1037	MA10EV3TP	Math10 event 3 type	0	65535	R/W
1038	MA11EV3TP	Math11 event 3 type	0	65535	R/W
1039	MA12EV3TP	Math12 event 3 type	0	65535	R/W
1040	MA13EV3TP	Math13 event 3 type	0	65535	R/W
1041	MA14EV3TP	Math14 event 3 type	0	65535	R/W
1042	MA15EV3TP	Math15 event 3 type	0	65535	R/W
1043	MA16EV3TP	Math16 event 3 type	0	65535	R/W
1044	MA17EV3TP	Math17 event 3 type	0	65535	R/W
1045	MA18EV3TP	Math18 event 3 type	0	65535	R/W
1046	AI1EV3SP	AI1 event 3 set point	*1	*1	R/W
1047	AI2EV3SP	AI2 event 3 set point	*1	*1	R/W
1048	AI3EV3SP	AI3 event 3 set point	*1	*1	R/W
1049	AI4EV3SP	AI4 event 3 set point	*1	*1	R/W
1050	AI5EV3SP	AI5 event 3 set point	*1	*1	R/W
1051	AI6EV3SP	AI6 event 3 set point	*1	*1	R/W
1052	AI7EV3SP	AI7 event 3 set point	*1	*1	R/W
1053	AI8EV3SP	AI8 event 3 set point	*1	*1	R/W
1054	AI9EV3SP	AI9 event 3 set point	*1	*1	R/W
1055	AI10EV3SP	AI10 event 3 set point	*1	*1	R/W
1056	AI11EV3SP	AI11 event 3 set point	*1	*1	R/W
1057	AI12EV3SP	AI12 event 3 set point	*1	*1	R/W
1058	AI13EV3SP	AI13 event 3 set point	*1	*1	R/W
1059	AI14EV3SP	AI14 event 3 set point	*1	*1	R/W
1060	AI15EV3SP	AI15 event 3 set point	*1	*1	R/W
1061	AI16EV3SP	AI16 event 3 set point	*1	*1	R/W
1062	AI17EV3SP	AI17 event 3 set point	*1	*1	R/W
1063	AI18EV3SP	AI18 event 3 set point	*1	*1	R/W
1064	MA1EV3SP	Math1 event 3 set point	*2	*2	R/W
1065	MA2EV3SP	Math2 event 3 set point	*2	*2	R/W
1066	MA3EV3SP	Math3 event 3 set point	*2	*2	R/W
1067	MA4EV3SP	Math4 event 3 set point	*2	*2	R/W
1068	MA5EV3SP	Math5 event 3 set point	*2	*2	R/W
1069	MA6EV3SP	Math6 event 3 set point	*2	*2	R/W
1070	MA7EV3SP	Math7 event 3 set point	*2	*2	R/W
1071	MA8EV3SP	Math8 event 3 set point	*2	*2	R/W
1072	MA9EV3SP	Math9 event 3 set point	*2	*2	R/W
1073	MA10EV3SP	Math10 event 3 set point	*2	*2	R/W

1074	MA11EV3SP	Math11 event 3 set point	*2	*2	R/W
1075	MA12EV3SP	Math12 event 3 set point	*2	*2	R/W
1076	MA13EV3SP	Math13 event 3 set point	*2	*2	R/W
1077	MA14EV3SP	Math14 event 3 set point	*2	*2	R/W
1078	MA15EV3SP	Math15 event 3 set point	*2	*2	R/W
1079	MA16EV3SP	Math16 event 3 set point	*2	*2	R/W
1080	MA17EV3SP	Math17 event 3 set point	*2	*2	R/W
1081	MA18EV3SP	Math18 event 3 set point	*2	*2	R/W
1082	AI1EV3RT	AI1 event 3 rate of change time	0	65535	R/W
1083	AI2EV3RT	AI2 event 3 rate of change time	0	65535	R/W
1084	AI3EV3RT	AI3 event 3 rate of change time	0	65535	R/W
1085	AI4EV3RT	AI4 event 3 rate of change time	0	65535	R/W
1086	AI5EV3RT	AI5 event 3 rate of change time	0	65535	R/W
1087	AI6EV3RT	AI6 event 3 rate of change time	0	65535	R/W
1088	AI7EV3RT	AI7 event 3 rate of change time	0	65535	R/W
1089	AI8EV3RT	AI8 event 3 rate of change time	0	65535	R/W
1090	AI9EV3RT	AI9 event 3 rate of change time	0	65535	R/W
1091	AI10EV3RT	AI10 event 3 rate of change time	0	65535	R/W
1092	AI11EV3RT	AI11 event 3 rate of change time	0	65535	R/W
1093	AI12EV3RT	AI12 event 3 rate of change time	0	65535	R/W
1094	AI13EV3RT	AI13 event 3 rate of change time	0	65535	R/W
1095	AI14EV3RT	AI14 event 3 rate of change time	0	65535	R/W
1096	AI15EV3RT	AI15 event 3 rate of change time	0	65535	R/W
1097	AI16EV3RT	AI16 event 3 rate of change time	0	65535	R/W
1098	AI17EV3RT	AI17 event 3 rate of change time	0	65535	R/W
1099	AI18EV3RT	AI18 event 3 rate of change time	0	65535	R/W
1100	MA1EV3RT	Math1 event 3 rate of change time	0	65535	R/W
1101	MA2EV3RT	Math2 event 3 rate of change time	0	65535	R/W
1102	MA3EV3RT	Math3 event 3 rate of change time	0	65535	R/W
1103	MA4EV3RT	Math4 event 3 rate of change time	0	65535	R/W
1104	MA5EV3RT	Math5 event 3 rate of change time	0	65535	R/W
1105	MA6EV3RT	Math6 event 3 rate of change time	0	65535	R/W
1106	MA7EV3RT	Math7 event 3 rate of change time	0	65535	R/W
1107	MA8EV3RT	Math8 event 3 rate of change time	0	65535	R/W
1108	MA9EV3RT	Math9 event 3 rate of change time	0	65535	R/W
1109	MA10EV3RT	Math10 event 3 rate of change time	0	65535	R/W
1110	MA11EV3RT	Math11 event 3 rate of change time	0	65535	R/W
1111	MA12EV3RT	Math12 event 3 rate of change time	0	65535	R/W
1112	MA13EV3RT	Math13 event 3 rate of change time	0	65535	R/W
1113	MA14EV3RT	Math14 event 3 rate of change time	0	65535	R/W
1114	MA15EV3RT	Math15 event 3 rate of change time	0	65535	R/W
1115	MA16EV3RT	Math16 event 3 rate of change time	0	65535	R/W
1116	MA17EV3RT	Math17 event 3 rate of change time	0	65535	R/W
1117	MA18EV3RT	Math18 event 3 rate of change time	0	65535	R/W
1118	AI1EV3JB1	AI1 event 3 job 1	0	65535	R/W
1119	AI2EV3JB1	AI2 event 3 job 1	0	65535	R/W
1120	AI3EV3JB1	AI3 event 3 job 1	0	65535	R/W
1121	AI4EV3JB1	AI4 event 3 job 1	0	65535	R/W
1122	AI5EV3JB1	AI5 event 3 job 1	0	65535	R/W

1123	AI6EV3JB1	AI6 event 3 job 1	0	65535	R/W
1124	AI7EV3JB1	AI7 event 3 job 1	0	65535	R/W
1125	AI8EV3JB1	AI8 event 3 job 1	0	65535	R/W
1126	AI9EV3JB1	AI9 event 3 job 1	0	65535	R/W
1127	AI10EV3JB1	AI10 event 3 job 1	0	65535	R/W
1128	AI11EV3JB1	AI11 event 3 job 1	0	65535	R/W
1129	AI12EV3JB1	AI12 event 3 job 1	0	65535	R/W
1130	AI13EV3JB1	AI13 event 3 job 1	0	65535	R/W
1131	AI14EV3JB1	AI14 event 3 job 1	0	65535	R/W
1132	AI15EV3JB1	AI15 event 3 job 1	0	65535	R/W
1133	AI16EV3JB1	AI16 event 3 job 1	0	65535	R/W
1134	AI17EV3JB1	AI17 event 3 job 1	0	65535	R/W
1135	AI18EV3JB1	AI18 event 3 job 1	0	65535	R/W
1136	MA1EV3JB1	Math1 event 3 job 1	0	65535	R/W
1137	MA2EV3JB1	Math2 event 3 job 1	0	65535	R/W
1138	MA3EV3JB1	Math3 event 3 job 1	0	65535	R/W
1139	MA4EV3JB1	Math4 event 3 job 1	0	65535	R/W
1140	MA5EV3JB1	Math5 event 3 job 1	0	65535	R/W
1141	MA6EV3JB1	Math6 event 3 job 1	0	65535	R/W
1142	MA7EV3JB1	Math7 event 3 job 1	0	65535	R/W
1143	MA8EV3JB1	Math8 event 3 job 1	0	65535	R/W
1144	MA9EV3JB1	Math9 event 3 job 1	0	65535	R/W
1145	MA10EV3JB1	Math10 event 3 job 1	0	65535	R/W
1146	MA11EV3JB1	Math11 event 3 job 1	0	65535	R/W
1147	MA12EV3JB1	Math12 event 3 job 1	0	65535	R/W
1148	MA13EV3JB1	Math13 event 3 job 1	0	65535	R/W
1149	MA14EV3JB1	Math14 event 3 job 1	0	65535	R/W
1150	MA15EV3JB1	Math15 event 3 job 1	0	65535	R/W
1151	MA16EV3JB1	Math16 event 3 job 1	0	65535	R/W
1152	MA17EV3JB1	Math17 event 3 job 1	0	65535	R/W
1153	MA18EV3JB1	Math18 event 3 job 1	0	65535	R/W
1154	AI1EV3PM1	AI1 event 3 job 1 parameter	0	65535	R/W
1155	AI2EV3PM1	AI2 event 3 job 1 parameter	0	65535	R/W
1156	AI3EV3PM1	AI3 event 3 job 1 parameter	0	65535	R/W
1157	AI4EV3PM1	AI4 event 3 job 1 parameter	0	65535	R/W
1158	AI5EV3PM1	AI5 event 3 job 1 parameter	0	65535	R/W
1159	AI6EV3PM1	AI6 event 3 job 1 parameter	0	65535	R/W
1160	AI7EV3PM1	AI7 event 3 job 1 parameter	0	65535	R/W
1161	AI8EV3PM1	AI8 event 3 job 1 parameter	0	65535	R/W
1162	AI9EV3PM1	AI9 event 3 job 1 parameter	0	65535	R/W
1163	AI10EV3PM1	AI10 event 3 job 1 parameter	0	65535	R/W
1164	AI11EV3PM1	AI11 event 3 job 1 parameter	0	65535	R/W
1165	AI12EV3PM1	AI12 event 3 job 1 parameter	0	65535	R/W
1166	AI13EV3PM1	AI13 event 3 job 1 parameter	0	65535	R/W
1167	AI14EV3PM1	AI14 event 3 job 1 parameter	0	65535	R/W
1168	AI15EV3PM1	AI15 event 3 job 1 parameter	0	65535	R/W
1169	AI16EV3PM1	AI16 event 3 job 1 parameter	0	65535	R/W
1170	AI17EV3PM1	AI17 event 3 job 1 parameter	0	65535	R/W
1171	AI18EV3PM1	AI18 event 3 job 1 parameter	0	65535	R/W

1172	MA1EV3PM1	Math1 event 3 job 1 parameter	0	65535	R/W
1173	MA2EV3PM1	Math2 event 3 job 1 parameter	0	65535	R/W
1174	MA3EV3PM1	Math3 event 3 job 1 parameter	0	65535	R/W
1175	MA4EV3PM1	Math4 event 3 job 1 parameter	0	65535	R/W
1176	MA5EV3PM1	Math5 event 3 job 1 parameter	0	65535	R/W
1177	MA6EV3PM1	Math6 event 3 job 1 parameter	0	65535	R/W
1178	MA7EV3PM1	Math7 event 3 job 1 parameter	0	65535	R/W
1179	MA8EV3PM1	Math8 event 3 job 1 parameter	0	65535	R/W
1180	MA9EV3PM1	Math9 event 3 job 1 parameter	0	65535	R/W
1181	MA10EV3PM1	Math10 event 3 job 1 parameter	0	65535	R/W
1182	MA11EV3PM1	Math11 event 3 job 1 parameter	0	65535	R/W
1183	MA12EV3PM1	Math12 event 3 job 1 parameter	0	65535	R/W
1184	MA13EV3PM1	Math13 event 3 job 1 parameter	0	65535	R/W
1185	MA14EV3PM1	Math14 event 3 job 1 parameter	0	65535	R/W
1186	MA15EV3PM1	Math15 event 3 job 1 parameter	0	65535	R/W
1187	MA16EV3PM1	Math16 event 3 job 1 parameter	0	65535	R/W
1188	MA17EV3PM1	Math17 event 3 job 1 parameter	0	65535	R/W
1189	MA18EV3PM1	Math18 event 3 job 1 parameter	0	65535	R/W
1190	AI1EV3JB2	AI1 event 3 job 2	0	65535	R/W
1191	AI2EV3JB2	AI2 event 3 job 2	0	65535	R/W
1192	AI3EV3JB2	AI3 event 3 job 2	0	65535	R/W
1193	AI4EV3JB2	AI4 event 3 job 2	0	65535	R/W
1194	AI5EV3JB2	AI5 event 3 job 2	0	65535	R/W
1195	AI6EV3JB2	AI6 event 3 job 2	0	65535	R/W
1196	AI7EV3JB2	AI7 event 3 job 2	0	65535	R/W
1197	AI8EV3JB2	AI8 event 3 job 2	0	65535	R/W
1198	AI9EV3JB2	AI9 event 3 job 2	0	65535	R/W
1199	AI10EV3JB2	AI10 event 3 job 2	0	65535	R/W
1200	AI11EV3JB2	AI11 event 3 job 2	0	65535	R/W
1201	AI12EV3JB2	AI12 event 3 job 2	0	65535	R/W
1202	AI13EV3JB2	AI13 event 3 job 2	0	65535	R/W
1203	AI14EV3JB2	AI14 event 3 job 2	0	65535	R/W
1204	AI15EV3JB2	AI15 event 3 job 2	0	65535	R/W
1205	AI16EV3JB2	AI16 event 3 job 2	0	65535	R/W
1206	AI17EV3JB2	AI17 event 3 job 2	0	65535	R/W
1207	AI18EV3JB2	AI18 event 3 job 2	0	65535	R/W
1208	MA1EV3JB2	Math1 event 3 job 2	0	65535	R/W
1209	MA2EV3JB2	Math2 event 3 job 2	0	65535	R/W
1210	MA3EV3JB2	Math3 event 3 job 2	0	65535	R/W
1211	MA4EV3JB2	Math4 event 3 job 2	0	65535	R/W
1212	MA5EV3JB2	Math5 event 3 job 2	0	65535	R/W
1213	MA6EV3JB2	Math6 event 3 job 2	0	65535	R/W
1214	MA7EV3JB2	Math7 event 3 job 2	0	65535	R/W
1215	MA8EV3JB2	Math8 event 3 job 2	0	65535	R/W
1216	MA9EV3JB2	Math9 event 3 job 2	0	65535	R/W
1217	MA10EV3JB2	Math10 event 3 job 2	0	65535	R/W
1218	MA11EV3JB2	Math11 event 3 job 2	0	65535	R/W
1219	MA12EV3JB2	Math12 event 3 job 2	0	65535	R/W
1220	MA13EV3JB2	Math13 event 3 job 2	0	65535	R/W

1221	MA14EV3JB2	Math14 event 3 job 2	0	65535	R/W
1222	MA15EV3JB2	Math15 event 3 job 2	0	65535	R/W
1223	MA16EV3JB2	Math16 event 3 job 2	0	65535	R/W
1224	MA17EV3JB2	Math17 event 3 job 2	0	65535	R/W
1225	MA18EV3JB2	Math18 event 3 job 2	0	65535	R/W
1226	AI1EV3PM2	AI1 event 3 job 2 parameter	0	65535	R/W
1227	AI2EV3PM2	AI2 event 3 job 2 parameter	0	65535	R/W
1228	AI3EV3PM2	AI3 event 3 job 2 parameter	0	65535	R/W
1229	AI4EV3PM2	AI4 event 3 job 2 parameter	0	65535	R/W
1230	AI5EV3PM2	AI5 event 3 job 2 parameter	0	65535	R/W
1231	AI6EV3PM2	AI6 event 3 job 2 parameter	0	65535	R/W
1232	AI7EV3PM2	AI7 event 3 job 2 parameter	0	65535	R/W
1233	AI8EV3PM2	AI8 event 3 job 2 parameter	0	65535	R/W
1234	AI9EV3PM2	AI9 event 3 job 2 parameter	0	65535	R/W
1235	AI10EV3PM2	AI10 event 3 job 2 parameter	0	65535	R/W
1236	AI11EV3PM2	AI11 event 3 job 2 parameter	0	65535	R/W
1237	AI12EV3PM2	AI12 event 3 job 2 parameter	0	65535	R/W
1238	AI13EV3PM2	AI13 event 3 job 2 parameter	0	65535	R/W
1239	AI14EV3PM2	AI14 event 3 job 2 parameter	0	65535	R/W
1240	AI15EV3PM2	AI15 event 3 job 2 parameter	0	65535	R/W
1241	AI16EV3PM2	AI16 event 3 job 2 parameter	0	65535	R/W
1242	AI17EV3PM2	AI17 event 3 job 2 parameter	0	65535	R/W
1243	AI18EV3PM2	AI18 event 3 job 2 parameter	0	65535	R/W
1244	MA1EV3PM2	Math1 event 3 job 2 parameter	0	65535	R/W
1245	MA2EV3PM2	Math2 event 3 job 2 parameter	0	65535	R/W
1246	MA3EV3PM2	Math3 event 3 job 2 parameter	0	65535	R/W
1247	MA4EV3PM2	Math4 event 3 job 2 parameter	0	65535	R/W
1248	MA5EV3PM2	Math5 event 3 job 2 parameter	0	65535	R/W
1249	MA6EV3PM2	Math6 event 3 job 2 parameter	0	65535	R/W
1250	MA7EV3PM2	Math7 event 3 job 2 parameter	0	65535	R/W
1251	MA8EV3PM2	Math8 event 3 job 2 parameter	0	65535	R/W
1252	MA9EV3PM2	Math9 event 3 job 2 parameter	0	65535	R/W
1253	MA10EV3PM2	Math10 event 3 job 2 parameter	0	65535	R/W
1254	MA11EV3PM2	Math11 event 3 job 2 parameter	0	65535	R/W
1255	MA12EV3PM2	Math12 event 3 job 2 parameter	0	65535	R/W
1256	MA13EV3PM2	Math13 event 3 job 2 parameter	0	65535	R/W
1257	MA14EV3PM2	Math14 event 3 job 2 parameter	0	65535	R/W
1258	MA15EV3PM2	Math15 event 3 job 2 parameter	0	65535	R/W
1259	MA16EV3PM2	Math16 event 3 job 2 parameter	0	65535	R/W
1260	MA17EV3PM2	Math17 event 3 job 2 parameter	0	65535	R/W
1261	MA18EV3PM2	Math18 event 3 job 2 parameter	0	65535	R/W
1262	AI1EV4TP	AI1 event 4 type	0	65535	R/W
1263	AI2EV4TP	AI2 event 4 type	0	65535	R/W
1264	AI3EV4TP	AI3 event 4 type	0	65535	R/W
1265	AI4EV4TP	AI4 event 4 type	0	65535	R/W
1266	AI5EV4TP	AI5 event 4 type	0	65535	R/W
1267	AI6EV4TP	AI6 event 4 type	0	65535	R/W
1268	AI7EV4TP	AI7 event 4 type	0	65535	R/W
1269	AI8EV4TP	AI8 event 4 type	0	65535	R/W

1270	AI9EV4TP	AI9 event 4 type	0	65535	R/W
1271	AI10EV4TP	AI10 event 4 type	0	65535	R/W
1272	AI11EV4TP	AI11 event 4 type	0	65535	R/W
1273	AI12EV4TP	AI12 event 4 type	0	65535	R/W
1274	AI13EV4TP	AI13 event 4 type	0	65535	R/W
1275	AI14EV4TP	AI14 event 4 type	0	65535	R/W
1276	AI15EV4TP	AI15 event 4 type	0	65535	R/W
1277	AI16EV4TP	AI16 event 4 type	0	65535	R/W
1278	AI17EV4TP	AI17 event 4 type	0	65535	R/W
1279	AI18EV4TP	AI18 event 4 type	0	65535	R/W
1280	MA1EV4TP	Math1 event 4 type	0	65535	R/W
1281	MA2EV4TP	Math2 event 4 type	0	65535	R/W
1282	MA3EV4TP	Math3 event 4 type	0	65535	R/W
1283	MA4EV4TP	Math4 event 4 type	0	65535	R/W
1284	MA5EV4TP	Math5 event 4 type	0	65535	R/W
1285	MA6EV4TP	Math6 event 4 type	0	65535	R/W
1286	MA7EV4TP	Math7 event 4 type	0	65535	R/W
1287	MA8EV4TP	Math8 event 4 type	0	65535	R/W
1288	MA9EV4TP	Math9 event 4 type	0	65535	R/W
1289	MA10EV4TP	Math10 event 4 type	0	65535	R/W
1290	MA11EV4TP	Math11 event 4 type	0	65535	R/W
1291	MA12EV4TP	Math12 event 4 type	0	65535	R/W
1292	MA13EV4TP	Math13 event 4 type	0	65535	R/W
1293	MA14EV4TP	Math14 event 4 type	0	65535	R/W
1294	MA15EV4TP	Math15 event 4 type	0	65535	R/W
1295	MA16EV4TP	Math16 event 4 type	0	65535	R/W
1296	MA17EV4TP	Math17 event 4 type	0	65535	R/W
1297	MA18EV4TP	Math18 event 4 type	0	65535	R/W
1298	AI1EV4SP	AI1 event 4 set point	*1	*1	R/W
1299	AI2EV4SP	AI2 event 4 set point	*1	*1	R/W
1300	AI3EV4SP	AI3 event 4 set point	*1	*1	R/W
1301	AI4EV4SP	AI4 event 4 set point	*1	*1	R/W
1302	AI5EV4SP	AI5 event 4 set point	*1	*1	R/W
1303	AI6EV4SP	AI6 event 4 set point	*1	*1	R/W
1304	AI7EV4SP	AI7 event 4 set point	*1	*1	R/W
1305	AI8EV4SP	AI8 event 4 set point	*1	*1	R/W
1306	AI9EV4SP	AI9 event 4 set point	*1	*1	R/W
1307	AI10EV4SP	AI10 event 4 set point	*1	*1	R/W
1308	AI11EV4SP	AI11 event 4 set point	*1	*1	R/W
1309	AI12EV4SP	AI12 event 4 set point	*1	*1	R/W
1310	AI13EV4SP	AI13 event 4 set point	*1	*1	R/W
1311	AI14EV4SP	AI14 event 4 set point	*1	*1	R/W
1312	AI15EV4SP	AI15 event 4 set point	*1	*1	R/W
1313	AI16EV4SP	AI16 event 4 set point	*1	*1	R/W
1314	AI17EV4SP	AI17 event 4 set point	*1	*1	R/W
1315	AI18EV4SP	AI18 event 4 set point	*1	*1	R/W
1316	MA1EV4SP	Math1 event 4 set point	*2	*2	R/W
1317	MA2EV4SP	Math2 event 4 set point	*2	*2	R/W
1318	MA3EV4SP	Math3 event 4 set point	*2	*2	R/W

1319	MA4EV4SP	Math4 event 4 set point	*2	*2	R/W
1320	MA5EV4SP	Math5 event 4 set point	*2	*2	R/W
1321	MA6EV4SP	Math6 event 4 set point	*2	*2	R/W
1322	MA7EV4SP	Math7 event 4 set point	*2	*2	R/W
1323	MA8EV4SP	Math8 event 4 set point	*2	*2	R/W
1324	MA9EV4SP	Math9 event 4 set point	*2	*2	R/W
1325	MA10EV4SP	Math10 event 4 set point	*2	*2	R/W
1326	MA11EV4SP	Math11 event 4 set point	*2	*2	R/W
1327	MA12EV4SP	Math12 event 4 set point	*2	*2	R/W
1328	MA13EV4SP	Math13 event 4 set point	*2	*2	R/W
1329	MA14EV4SP	Math14 event 4 set point	*2	*2	R/W
1330	MA15EV4SP	Math15 event 4 set point	*2	*2	R/W
1331	MA16EV4SP	Math16 event 4 set point	*2	*2	R/W
1332	MA17EV4SP	Math17 event 4 set point	*2	*2	R/W
1333	MA18EV4SP	Math18 event 4 set point	*2	*2	R/W
1334	AI1EV4RT	AI1 event 4 rate of change time	0	65535	R/W
1335	AI2EV4RT	AI2 event 4 rate of change time	0	65535	R/W
1336	AI3EV4RT	AI3 event 4 rate of change time	0	65535	R/W
1337	AI4EV4RT	AI4 event 4 rate of change time	0	65535	R/W
1338	AI5EV4RT	AI5 event 4 rate of change time	0	65535	R/W
1339	AI6EV4RT	AI6 event 4 rate of change time	0	65535	R/W
1340	AI7EV4RT	AI7 event 4 rate of change time	0	65535	R/W
1341	AI8EV4RT	AI8 event 4 rate of change time	0	65535	R/W
1342	AI9EV4RT	AI9 event 4 rate of change time	0	65535	R/W
1343	AI10EV4RT	AI10 event 4 rate of change time	0	65535	R/W
1344	AI11EV4RT	AI11 event 4 rate of change time	0	65535	R/W
1345	AI12EV4RT	AI12 event 4 rate of change time	0	65535	R/W
1346	AI13EV4RT	AI13 event 4 rate of change time	0	65535	R/W
1347	AI14EV4RT	AI14 event 4 rate of change time	0	65535	R/W
1348	AI15EV4RT	AI15 event 4 rate of change time	0	65535	R/W
1349	AI16EV4RT	AI16 event 4 rate of change time	0	65535	R/W
1350	AI17EV4RT	AI17 event 4 rate of change time	0	65535	R/W
1351	AI18EV4RT	AI18 event 4 rate of change time	0	65535	R/W
1352	MA1EV4RT	Math1 event 4 rate of change time	0	65535	R/W
1353	MA2EV4RT	Math2 event 4 rate of change time	0	65535	R/W
1354	MA3EV4RT	Math3 event 4 rate of change time	0	65535	R/W
1355	MA4EV4RT	Math4 event 4 rate of change time	0	65535	R/W
1356	MA5EV4RT	Math5 event 4 rate of change time	0	65535	R/W
1357	MA6EV4RT	Math6 event 4 rate of change time	0	65535	R/W
1358	MA7EV4RT	Math7 event 4 rate of change time	0	65535	R/W
1359	MA8EV4RT	Math8 event 4 rate of change time	0	65535	R/W
1360	MA9EV4RT	Math9 event 4 rate of change time	0	65535	R/W
1361	MA10EV4RT	Math10 event 4 rate of change time	0	65535	R/W
1362	MA11EV4RT	Math11 event 4 rate of change time	0	65535	R/W
1363	MA12EV4RT	Math12 event 4 rate of change time	0	65535	R/W
1364	MA13EV4RT	Math13 event 4 rate of change time	0	65535	R/W
1365	MA14EV4RT	Math14 event 4 rate of change time	0	65535	R/W
1366	MA15EV4RT	Math15 event 4 rate of change time	0	65535	R/W
1367	MA16EV4RT	Math16 event 4 rate of change time	0	65535	R/W

1368	MA17EV4RT	Math17 event 4 rate of change time	0	65535	R/W
1369	MA18EV4RT	Math18 event 4 rate of change time	0	65535	R/W
1370	AI1EV4JB1	AI1 event 4 job 1	0	65535	R/W
1371	AI2EV4JB1	AI2 event 4 job 1	0	65535	R/W
1372	AI3EV4JB1	AI3 event 4 job 1	0	65535	R/W
1373	AI4EV4JB1	AI4 event 4 job 1	0	65535	R/W
1374	AI5EV4JB1	AI5 event 4 job 1	0	65535	R/W
1375	AI6EV4JB1	AI6 event 4 job 1	0	65535	R/W
1376	AI7EV4JB1	AI7 event 4 job 1	0	65535	R/W
1377	AI8EV4JB1	AI8 event 4 job 1	0	65535	R/W
1378	AI9EV4JB1	AI9 event 4 job 1	0	65535	R/W
1379	AI10EV4JB1	AI10 event 4 job 1	0	65535	R/W
1380	AI11EV4JB1	AI11 event 4 job 1	0	65535	R/W
1381	AI12EV4JB1	AI12 event 4 job 1	0	65535	R/W
1382	AI13EV4JB1	AI13 event 4 job 1	0	65535	R/W
1383	AI14EV4JB1	AI14 event 4 job 1	0	65535	R/W
1384	AI15EV4JB1	AI15 event 4 job 1	0	65535	R/W
1385	AI16EV4JB1	AI16 event 4 job 1	0	65535	R/W
1386	AI17EV4JB1	AI17 event 4 job 1	0	65535	R/W
1387	AI18EV4JB1	AI18 event 4 job 1	0	65535	R/W
1388	MA1EV4JB1	Math1 event 4 job 1	0	65535	R/W
1389	MA2EV4JB1	Math2 event 4 job 1	0	65535	R/W
1390	MA3EV4JB1	Math3 event 4 job 1	0	65535	R/W
1391	MA4EV4JB1	Math4 event 4 job 1	0	65535	R/W
1392	MA5EV4JB1	Math5 event 4 job 1	0	65535	R/W
1393	MA6EV4JB1	Math6 event 4 job 1	0	65535	R/W
1394	MA7EV4JB1	Math7 event 4 job 1	0	65535	R/W
1395	MA8EV4JB1	Math8 event 4 job 1	0	65535	R/W
1396	MA9EV4JB1	Math9 event 4 job 1	0	65535	R/W
1397	MA10EV4JB1	Math10 event 4 job 1	0	65535	R/W
1398	MA11EV4JB1	Math11 event 4 job 1	0	65535	R/W
1399	MA12EV4JB1	Math12 event 4 job 1	0	65535	R/W
1400	MA13EV4JB1	Math13 event 4 job 1	0	65535	R/W
1401	MA14EV4JB1	Math14 event 4 job 1	0	65535	R/W
1402	MA15EV4JB1	Math15 event 4 job 1	0	65535	R/W
1403	MA16EV4JB1	Math16 event 4 job 1	0	65535	R/W
1404	MA17EV4JB1	Math17 event 4 job 1	0	65535	R/W
1405	MA18EV4JB1	Math18 event 4 job 1	0	65535	R/W
1406	AI1EV4PM1	AI1 event 4 job 1 parameter	0	65535	R/W
1407	AI2EV4PM1	AI2 event 4 job 1 parameter	0	65535	R/W
1408	AI3EV4PM1	AI3 event 4 job 1 parameter	0	65535	R/W
1409	AI4EV4PM1	AI4 event 4 job 1 parameter	0	65535	R/W
1410	AI5EV4PM1	AI5 event 4 job 1 parameter	0	65535	R/W
1411	AI6EV4PM1	AI6 event 4 job 1 parameter	0	65535	R/W
1412	AI7EV4PM1	AI7 event 4 job 1 parameter	0	65535	R/W
1413	AI8EV4PM1	AI8 event 4 job 1 parameter	0	65535	R/W
1414	AI9EV4PM1	AI9 event 4 job 1 parameter	0	65535	R/W
1415	AI10EV4PM1	AI10 event 4 job 1 parameter	0	65535	R/W
1416	AI11EV4PM1	AI11 event 4 job 1 parameter	0	65535	R/W

1417	AI12EV4PM1	AI12 event 4 job 1 parameter	0	65535	R/W
1418	AI13EV4PM1	AI13 event 4 job 1 parameter	0	65535	R/W
1419	AI14EV4PM1	AI14 event 4 job 1 parameter	0	65535	R/W
1420	AI15EV4PM1	AI15 event 4 job 1 parameter	0	65535	R/W
1421	AI16EV4PM1	AI16 event 4 job 1 parameter	0	65535	R/W
1422	AI17EV4PM1	AI17 event 4 job 1 parameter	0	65535	R/W
1423	AI18EV4PM1	AI18 event 4 job 1 parameter	0	65535	R/W
1424	MA1EV4PM1	Math1 event 4 job 1 parameter	0	65535	R/W
1425	MA2EV4PM1	Math2 event 4 job 1 parameter	0	65535	R/W
1426	MA3EV4PM1	Math3 event 4 job 1 parameter	0	65535	R/W
1427	MA4EV4PM1	Math4 event 4 job 1 parameter	0	65535	R/W
1428	MA5EV4PM1	Math5 event 4 job 1 parameter	0	65535	R/W
1429	MA6EV4PM1	Math6 event 4 job 1 parameter	0	65535	R/W
1430	MA7EV4PM1	Math7 event 4 job 1 parameter	0	65535	R/W
1431	MA8EV4PM1	Math8 event 4 job 1 parameter	0	65535	R/W
1432	MA9EV4PM1	Math9 event 4 job 1 parameter	0	65535	R/W
1433	MA10EV4PM1	Math10 event 4 job 1 parameter	0	65535	R/W
1434	MA11EV4PM1	Math11 event 4 job 1 parameter	0	65535	R/W
1435	MA12EV4PM1	Math12 event 4 job 1 parameter	0	65535	R/W
1436	MA13EV4PM1	Math13 event 4 job 1 parameter	0	65535	R/W
1437	MA14EV4PM1	Math14 event 4 job 1 parameter	0	65535	R/W
1438	MA15EV4PM1	Math15 event 4 job 1 parameter	0	65535	R/W
1439	MA16EV4PM1	Math16 event 4 job 1 parameter	0	65535	R/W
1440	MA17EV4PM1	Math17 event 4 job 1 parameter	0	65535	R/W
1441	MA18EV4PM1	Math18 event 4 job 1 parameter	0	65535	R/W
1442	AI1EV4JB2	AI1 event 4 job 2	0	65535	R/W
1443	AI2EV4JB2	AI2 event 4 job 2	0	65535	R/W
1444	AI3EV4JB2	AI3 event 4 job 2	0	65535	R/W
1445	AI4EV4JB2	AI4 event 4 job 2	0	65535	R/W
1446	AI5EV4JB2	AI5 event 4 job 2	0	65535	R/W
1447	AI6EV4JB2	AI6 event 4 job 2	0	65535	R/W
1448	AI7EV4JB2	AI7 event 4 job 2	0	65535	R/W
1449	AI8EV4JB2	AI8 event 4 job 2	0	65535	R/W
1450	AI9EV4JB2	AI9 event 4 job 2	0	65535	R/W
1451	AI10EV4JB2	AI10 event 4 job 2	0	65535	R/W
1452	AI11EV4JB2	AI11 event 4 job 2	0	65535	R/W
1453	AI12EV4JB2	AI12 event 4 job 2	0	65535	R/W
1454	AI13EV4JB2	AI13 event 4 job 2	0	65535	R/W
1455	AI14EV4JB2	AI14 event 4 job 2	0	65535	R/W
1456	AI15EV4JB2	AI15 event 4 job 2	0	65535	R/W
1457	AI16EV4JB2	AI16 event 4 job 2	0	65535	R/W
1458	AI17EV4JB2	AI17 event 4 job 2	0	65535	R/W
1459	AI18EV4JB2	AI18 event 4 job 2	0	65535	R/W
1460	MA1EV4JB2	Math1 event 4 job 2	0	65535	R/W
1461	MA2EV4JB2	Math2 event 4 job 2	0	65535	R/W
1462	MA3EV4JB2	Math3 event 4 job 2	0	65535	R/W
1463	MA4EV4JB2	Math4 event 4 job 2	0	65535	R/W
1464	MA5EV4JB2	Math5 event 4 job 2	0	65535	R/W
1465	MA6EV4JB2	Math6 event 4 job 2	0	65535	R/W

1466	MA7EV4JB2	Math7 event 4 job 2	0	65535	R/W
1467	MA8EV4JB2	Math8 event 4 job 2	0	65535	R/W
1468	MA9EV4JB2	Math9 event 4 job 2	0	65535	R/W
1469	MA10EV4JB2	Math10 event 4 job 2	0	65535	R/W
1470	MA11EV4JB2	Math11 event 4 job 2	0	65535	R/W
1471	MA12EV4JB2	Math12 event 4 job 2	0	65535	R/W
1472	MA13EV4JB2	Math13 event 4 job 2	0	65535	R/W
1473	MA14EV4JB2	Math14 event 4 job 2	0	65535	R/W
1474	MA15EV4JB2	Math15 event 4 job 2	0	65535	R/W
1475	MA16EV4JB2	Math16 event 4 job 2	0	65535	R/W
1476	MA17EV4JB2	Math17 event 4 job 2	0	65535	R/W
1477	MA18EV4JB2	Math18 event 4 job 2	0	65535	R/W
1478	AI1EV4PM2	AI1 event 4 job 2 parameter	0	65535	R/W
1479	AI2EV4PM2	AI2 event 4 job 2 parameter	0	65535	R/W
1480	AI3EV4PM2	AI3 event 4 job 2 parameter	0	65535	R/W
1481	AI4EV4PM2	AI4 event 4 job 2 parameter	0	65535	R/W
1482	AI5EV4PM2	AI5 event 4 job 2 parameter	0	65535	R/W
1483	AI6EV4PM2	AI6 event 4 job 2 parameter	0	65535	R/W
1484	AI7EV4PM2	AI7 event 4 job 2 parameter	0	65535	R/W
1485	AI8EV4PM2	AI8 event 4 job 2 parameter	0	65535	R/W
1486	AI9EV4PM2	AI9 event 4 job 2 parameter	0	65535	R/W
1487	AI10EV4PM2	AI10 event 4 job 2 parameter	0	65535	R/W
1488	AI11EV4PM2	AI11 event 4 job 2 parameter	0	65535	R/W
1489	AI12EV4PM2	AI12 event 4 job 2 parameter	0	65535	R/W
1490	AI13EV4PM2	AI13 event 4 job 2 parameter	0	65535	R/W
1491	AI14EV4PM2	AI14 event 4 job 2 parameter	0	65535	R/W
1492	AI15EV4PM2	AI15 event 4 job 2 parameter	0	65535	R/W
1493	AI16EV4PM2	AI16 event 4 job 2 parameter	0	65535	R/W
1494	AI17EV4PM2	AI17 event 4 job 2 parameter	0	65535	R/W
1495	AI18EV4PM2	AI18 event 4 job 2 parameter	0	65535	R/W
1496	MA1EV4PM2	Math1 event 4 job 2 parameter	0	65535	R/W
1497	MA2EV4PM2	Math2 event 4 job 2 parameter	0	65535	R/W
1498	MA3EV4PM2	Math3 event 4 job 2 parameter	0	65535	R/W
1499	MA4EV4PM2	Math4 event 4 job 2 parameter	0	65535	R/W
1500	MA5EV4PM2	Math5 event 4 job 2 parameter	0	65535	R/W
1501	MA6EV4PM2	Math6 event 4 job 2 parameter	0	65535	R/W
1502	MA7EV4PM2	Math7 event 4 job 2 parameter	0	65535	R/W
1503	MA8EV4PM2	Math8 event 4 job 2 parameter	0	65535	R/W
1504	MA9EV4PM2	Math9 event 4 job 2 parameter	0	65535	R/W
1505	MA10EV4PM2	Math10 event 4 job 2 parameter	0	65535	R/W
1506	MA11EV4PM2	Math11 event 4 job 2 parameter	0	65535	R/W
1507	MA12EV4PM2	Math12 event 4 job 2 parameter	0	65535	R/W
1508	MA13EV4PM2	Math13 event 4 job 2 parameter	0	65535	R/W
1509	MA14EV4PM2	Math14 event 4 job 2 parameter	0	65535	R/W
1510	MA15EV4PM2	Math15 event 4 job 2 parameter	0	65535	R/W
1511	MA16EV4PM2	Math16 event 4 job 2 parameter	0	65535	R/W
1512	MA17EV4PM2	Math17 event 4 job 2 parameter	0	65535	R/W
1513	MA18EV4PM2	Math18 event 4 job 2 parameter	0	65535	R/W
1514	PG1MD	Page 1 mode	0	65535	R/W

1515	PG2MD	Page 2 mode	0	65535	R/W
1516	PG3MD	Page 3 mode	0	65535	R/W
1517	PG4MD	Page 4 mode	0	65535	R/W
1518	PG5MD	Page 5 mode	0	65535	R/W
1519	PG6MD	Page 6 mode	0	65535	R/W
1520	PG1DT	Page 1 trend direction	0	65535	R/W
1521	PG2DT	Page 2 trend direction	0	65535	R/W
1522	PG3DT	Page 3 trend direction	0	65535	R/W
1523	PG4DT	Page 4 trend direction	0	65535	R/W
1524	PG5DT	Page 5 trend direction	0	65535	R/W
1525	PG6DT	Page 6 trend direction	0	65535	R/W
1526	PG1BG	Page 1 trend background color	0	65535	R/W
1527	PG2BG	Page 2 trend background color	0	65535	R/W
1528	PG3BG	Page 3 trend background color	0	65535	R/W
1529	PG4BG	Page 4 trend background color	0	65535	R/W
1530	PG5BG	Page 5 trend background color	0	65535	R/W
1531	PG6BG	Page 6 trend background color	0	65535	R/W
1532	PG1DI	Page 1 DI status bar	0	65535	R/W
1533	PG2DI	Page 2 DI status bar	0	65535	R/W
1534	PG3DI	Page 3 DI status bar	0	65535	R/W
1535	PG4DI	Page 4 DI status bar	0	65535	R/W
1536	PG5DI	Page 5 DI status bar	0	65535	R/W
1537	PG6DI	Page 6 DI status bar	0	65535	R/W
1538	PG1DO	Page 1 DO status bar	0	65535	R/W
1539	PG2DO	Page 2 DO status bar	0	65535	R/W
1540	PG3DO	Page 3 DO status bar	0	65535	R/W
1541	PG4DO	Page 4 DO status bar	0	65535	R/W
1542	PG5DO	Page 5 DO status bar	0	65535	R/W
1543	PG6DO	Page 6 DO status bar	0	65535	R/W
1544	PG1TZ	Page 1 totalizer status bar	0	65535	R/W
1545	PG2TZ	Page 2 totalizer status bar	0	65535	R/W
1546	PG3TZ	Page 3 totalizer status bar	0	65535	R/W
1547	PG4TZ	Page 4 totalizer status bar	0	65535	R/W
1548	PG5TZ	Page 5 totalizer status bar	0	65535	R/W
1549	PG6TZ	Page 6 totalizer status bar	0	65535	R/W
1550	PG1CT	Page 1 counter status bar	0	65535	R/W
1551	PG2CT	Page 2 counter status bar	0	65535	R/W
1552	PG3CT	Page 3 counter status bar	0	65535	R/W
1553	PG4CT	Page 4 counter status bar	0	65535	R/W
1554	PG5CT	Page 5 counter status bar	0	65535	R/W
1555	PG6CT	Page 6 counter status bar	0	65535	R/W
1556	PG1PN1CH	Page 1 pen 1 channel	0	65535	R/W
1557	PG2PN1CH	Page 2 pen 1 channel	0	65535	R/W
1558	PG3PN1CH	Page 3 pen 1 channel	0	65535	R/W
1559	PG4PN1CH	Page 4 pen 1 channel	0	65535	R/W
1560	PG5PN1CH	Page 5 pen 1 channel	0	65535	R/W
1561	PG6PN1CH	Page 6 pen 1 channel	0	65535	R/W
1562	PG1PN1CR	Page 1 pen 1 color	0	65535	R/W
1563	PG2PN1CR	Page 2 pen 1 color	0	65535	R/W

1564	PG3PN1CR	Page 3 pen 1 color	0	65535	R/W
1565	PG4PN1CR	Page 4 pen 1 color	0	65535	R/W
1566	PG5PN1CR	Page 5 pen 1 color	0	65535	R/W
1567	PG6PN1CR	Page 6 pen 1 color	0	65535	R/W
1568	PG1PN1WT	Page 1 pen 1 width	0	65535	R/W
1569	PG2PN1WT	Page 2 pen 1 width	0	65535	R/W
1570	PG3PN1WT	Page 3 pen 1 width	0	65535	R/W
1571	PG4PN1WT	Page 4 pen 1 width	0	65535	R/W
1572	PG5PN1WT	Page 5 pen 1 width	0	65535	R/W
1573	PG6PN1WT	Page 6 pen 1 width	0	65535	R/W
1574	PG1PN1LO	Page 1 pen 1 display rang low	*3	*3	R/W
1575	PG2PN1LO	Page 2 pen 1 display rang low	*3	*3	R/W
1576	PG3PN1LO	Page 3 pen 1 display rang low	*3	*3	R/W
1577	PG4PN1LO	Page 4 pen 1 display rang low	*3	*3	R/W
1578	PG5PN1LO	Page 5 pen 1 display rang low	*3	*3	R/W
1579	PG6PN1LO	Page 6 pen 1 display rang low	*3	*3	R/W
1580	PG1PN1HI	Page 1 pen 1 display rang high	*3	*3	R/W
1581	PG2PN1HI	Page 2 pen 1 display rang high	*3	*3	R/W
1582	PG3PN1HI	Page 3 pen 1 display rang high	*3	*3	R/W
1583	PG4PN1HI	Page 4 pen 1 display rang high	*3	*3	R/W
1584	PG5PN1HI	Page 5 pen 1 display rang high	*3	*3	R/W
1585	PG6PN1HI	Page 6 pen 1 display rang high	*3	*3	R/W
1586	PG1PN2CH	Page 1 pen 2 channel	0	65535	R/W
1587	PG2PN2CH	Page 2 pen 2 channel	0	65535	R/W
1588	PG3PN2CH	Page 3 pen 2 channel	0	65535	R/W
1589	PG4PN2CH	Page 4 pen 2 channel	0	65535	R/W
1590	PG5PN2CH	Page 5 pen 2 channel	0	65535	R/W
1591	PG6PN2CH	Page 6 pen 2 channel	0	65535	R/W
1592	PG1PN2CR	Page 1 pen 2 color	0	65535	R/W
1593	PG2PN2CR	Page 2 pen 2 color	0	65535	R/W
1594	PG3PN2CR	Page 3 pen 2 color	0	65535	R/W
1595	PG4PN2CR	Page 4 pen 2 color	0	65535	R/W
1596	PG5PN2CR	Page 5 pen 2 color	0	65535	R/W
1597	PG6PN2CR	Page 6 pen 2 color	0	65535	R/W
1598	PG1PN2WT	Page 1 pen 2 width	0	65535	R/W
1599	PG2PN2WT	Page 2 pen 2 width	0	65535	R/W
1600	PG3PN2WT	Page 3 pen 2 width	0	65535	R/W
1601	PG4PN2WT	Page 4 pen 2 width	0	65535	R/W
1602	PG5PN2WT	Page 5 pen 2 width	0	65535	R/W
1603	PG6PN2WT	Page 6 pen 2 width	0	65535	R/W
1604	PG1PN2LO	Page 1 pen 2 display rang low	*3	*3	R/W
1605	PG2PN2LO	Page 2 pen 2 display rang low	*3	*3	R/W
1606	PG3PN2LO	Page 3 pen 2 display rang low	*3	*3	R/W
1607	PG4PN2LO	Page 4 pen 2 display rang low	*3	*3	R/W
1608	PG5PN2LO	Page 5 pen 2 display rang low	*3	*3	R/W
1609	PG6PN2LO	Page 6 pen 2 display rang low	*3	*3	R/W
1610	PG1PN2HI	Page 1 pen 2 display rang high	*3	*3	R/W
1611	PG2PN2HI	Page 2 pen 2 display rang high	*3	*3	R/W
1612	PG3PN2HI	Page 3 pen 2 display rang high	*3	*3	R/W

1613	PG4PN2HI	Page 4 pen 2 display rang high	*3	*3	R/W
1614	PG5PN2HI	Page 5 pen 2 display rang high	*3	*3	R/W
1615	PG6PN2HI	Page 6 pen 2 display rang high	*3	*3	R/W
1616	PG1PN3CH	Page 1 pen 3 channel	0	65535	R/W
1617	PG2PN3CH	Page 2 pen 3 channel	0	65535	R/W
1618	PG3PN3CH	Page 3 pen 3 channel	0	65535	R/W
1619	PG4PN3CH	Page 4 pen 3 channel	0	65535	R/W
1620	PG5PN3CH	Page 5 pen 3 channel	0	65535	R/W
1621	PG6PN3CH	Page 6 pen 3 channel	0	65535	R/W
1622	PG1PN3CR	Page 1 pen 3 color	0	65535	R/W
1623	PG2PN3CR	Page 2 pen 3 color	0	65535	R/W
1624	PG3PN3CR	Page 3 pen 3 color	0	65535	R/W
1625	PG4PN3CR	Page 4 pen 3 color	0	65535	R/W
1626	PG5PN3CR	Page 5 pen 3 color	0	65535	R/W
1627	PG6PN3CR	Page 6 pen 3 color	0	65535	R/W
1628	PG1PN3WT	Page 1 pen 3 width	0	65535	R/W
1629	PG2PN3WT	Page 2 pen 3 width	0	65535	R/W
1630	PG3PN3WT	Page 3 pen 3 width	0	65535	R/W
1631	PG4PN3WT	Page 4 pen 3 width	0	65535	R/W
1632	PG5PN3WT	Page 5 pen 3 width	0	65535	R/W
1633	PG6PN3WT	Page 6 pen 3 width	0	65535	R/W
1634	PG1PN3LO	Page 1 pen 3 display rang low	*3	*3	R/W
1635	PG2PN3LO	Page 2 pen 3 display rang low	*3	*3	R/W
1636	PG3PN3LO	Page 3 pen 3 display rang low	*3	*3	R/W
1637	PG4PN3LO	Page 4 pen 3 display rang low	*3	*3	R/W
1638	PG5PN3LO	Page 5 pen 3 display rang low	*3	*3	R/W
1639	PG6PN3LO	Page 6 pen 3 display rang low	*3	*3	R/W
1640	PG1PN3HI	Page 1 pen 3 display rang high	*3	*3	R/W
1641	PG2PN3HI	Page 2 pen 3 display rang high	*3	*3	R/W
1642	PG3PN3HI	Page 3 pen 3 display rang high	*3	*3	R/W
1643	PG4PN3HI	Page 4 pen 3 display rang high	*3	*3	R/W
1644	PG5PN3HI	Page 5 pen 3 display rang high	*3	*3	R/W
1645	PG6PN3HI	Page 6 pen 3 display rang high	*3	*3	R/W
1646	PG1PN4CH	Page 1 pen 4 channel	0	65535	R/W
1647	PG2PN4CH	Page 2 pen 4 channel	0	65535	R/W
1648	PG3PN4CH	Page 3 pen 4 channel	0	65535	R/W
1649	PG4PN4CH	Page 4 pen 4 channel	0	65535	R/W
1650	PG5PN4CH	Page 5 pen 4 channel	0	65535	R/W
1651	PG6PN4CH	Page 6 pen 4 channel	0	65535	R/W
1652	PG1PN4CR	Page 1 pen 4 color	0	65535	R/W
1653	PG2PN4CR	Page 2 pen 4 color	0	65535	R/W
1654	PG3PN4CR	Page 3 pen 4 color	0	65535	R/W
1655	PG4PN4CR	Page 4 pen 4 color	0	65535	R/W
1656	PG5PN4CR	Page 5 pen 4 color	0	65535	R/W
1657	PG6PN4CR	Page 6 pen 4 color	0	65535	R/W
1658	PG1PN4WT	Page 1 pen 4 width	0	65535	R/W
1659	PG2PN4WT	Page 2 pen 4 width	0	65535	R/W
1660	PG3PN4WT	Page 3 pen 4 width	0	65535	R/W
1661	PG4PN4WT	Page 4 pen 4 width	0	65535	R/W

1662	PG5PN4WT	Page 5 pen 4 width	0	65535	R/W
1663	PG6PN4WT	Page 6 pen 4 width	0	65535	R/W
1664	PG1PN4LO	Page 1 pen 4 display rang low	*3	*3	R/W
1665	PG2PN4LO	Page 2 pen 4 display rang low	*3	*3	R/W
1666	PG3PN4LO	Page 3 pen 4 display rang low	*3	*3	R/W
1667	PG4PN4LO	Page 4 pen 4 display rang low	*3	*3	R/W
1668	PG5PN4LO	Page 5 pen 4 display rang low	*3	*3	R/W
1669	PG6PN4LO	Page 6 pen 4 display rang low	*3	*3	R/W
1670	PG1PN4HI	Page 1 pen 4 display rang high	*3	*3	R/W
1671	PG2PN4HI	Page 2 pen 4 display rang high	*3	*3	R/W
1672	PG3PN4HI	Page 3 pen 4 display rang high	*3	*3	R/W
1673	PG4PN4HI	Page 4 pen 4 display rang high	*3	*3	R/W
1674	PG5PN4HI	Page 5 pen 4 display rang high	*3	*3	R/W
1675	PG6PN4HI	Page 6 pen 4 display rang high	*3	*3	R/W
1676	PG1PN5CH	Page 1 pen 5 channel	0	65535	R/W
1677	PG2PN5CH	Page 2 pen 5 channel	0	65535	R/W
1678	PG3PN5CH	Page 3 pen 5 channel	0	65535	R/W
1679	PG4PN5CH	Page 4 pen 5 channel	0	65535	R/W
1680	PG5PN5CH	Page 5 pen 5 channel	0	65535	R/W
1681	PG6PN5CH	Page 6 pen 5 channel	0	65535	R/W
1682	PG1PN5CR	Page 1 pen 5 color	0	65535	R/W
1683	PG2PN5CR	Page 2 pen 5 color	0	65535	R/W
1684	PG3PN5CR	Page 3 pen 5 color	0	65535	R/W
1685	PG4PN5CR	Page 4 pen 5 color	0	65535	R/W
1686	PG5PN5CR	Page 5 pen 5 color	0	65535	R/W
1687	PG6PN5CR	Page 6 pen 5 color	0	65535	R/W
1688	PG1PN5WT	Page 1 pen 5 width	0	65535	R/W
1689	PG2PN5WT	Page 2 pen 5 width	0	65535	R/W
1690	PG3PN5WT	Page 3 pen 5 width	0	65535	R/W
1691	PG4PN5WT	Page 4 pen 5 width	0	65535	R/W
1692	PG5PN5WT	Page 5 pen 5 width	0	65535	R/W
1693	PG6PN5WT	Page 6 pen 5 width	0	65535	R/W
1694	PG1PN5LO	Page 1 pen 5 display rang low	*3	*3	R/W
1695	PG2PN5LO	Page 2 pen 5 display rang low	*3	*3	R/W
1696	PG3PN5LO	Page 3 pen 5 display rang low	*3	*3	R/W
1697	PG4PN5LO	Page 4 pen 5 display rang low	*3	*3	R/W
1698	PG5PN5LO	Page 5 pen 5 display rang low	*3	*3	R/W
1699	PG6PN5LO	Page 6 pen 5 display rang low	*3	*3	R/W
1700	PG1PN5HI	Page 1 pen 5 display rang high	*3	*3	R/W
1701	PG2PN5HI	Page 2 pen 5 display rang high	*3	*3	R/W
1702	PG3PN5HI	Page 3 pen 5 display rang high	*3	*3	R/W
1703	PG4PN5HI	Page 4 pen 5 display rang high	*3	*3	R/W
1704	PG5PN5HI	Page 5 pen 5 display rang high	*3	*3	R/W
1705	PG6PN5HI	Page 6 pen 5 display rang high	*3	*3	R/W
1706	PG1PN6CH	Page 1 pen 6 channel	0	65535	R/W
1707	PG2PN6CH	Page 2 pen 6 channel	0	65535	R/W
1708	PG3PN6CH	Page 3 pen 6 channel	0	65535	R/W
1709	PG4PN6CH	Page 4 pen 6 channel	0	65535	R/W
1710	PG5PN6CH	Page 5 pen 6 channel	0	65535	R/W

1711	PG6PN6CH	Page 6 pen 6 channel	0	65535	R/W
1712	PG1PN6CR	Page 1 pen 6 color	0	65535	R/W
1713	PG2PN6CR	Page 2 pen 6 color	0	65535	R/W
1714	PG3PN6CR	Page 3 pen 6 color	0	65535	R/W
1715	PG4PN6CR	Page 4 pen 6 color	0	65535	R/W
1716	PG5PN6CR	Page 5 pen 6 color	0	65535	R/W
1717	PG6PN6CR	Page 6 pen 6 color	0	65535	R/W
1718	PG1PN6WT	Page 1 pen 6 width	0	65535	R/W
1719	PG2PN6WT	Page 2 pen 6 width	0	65535	R/W
1720	PG3PN6WT	Page 3 pen 6 width	0	65535	R/W
1721	PG4PN6WT	Page 4 pen 6 width	0	65535	R/W
1722	PG5PN6WT	Page 5 pen 6 width	0	65535	R/W
1723	PG6PN6WT	Page 6 pen 6 width	0	65535	R/W
1724	PG1PN6LO	Page 1 pen 6 display rang low	*3	*3	R/W
1725	PG2PN6LO	Page 2 pen 6 display rang low	*3	*3	R/W
1726	PG3PN6LO	Page 3 pen 6 display rang low	*3	*3	R/W
1727	PG4PN6LO	Page 4 pen 6 display rang low	*3	*3	R/W
1728	PG5PN6LO	Page 5 pen 6 display rang low	*3	*3	R/W
1729	PG6PN6LO	Page 6 pen 6 display rang low	*3	*3	R/W
1730	PG1PN6HI	Page 1 pen 6 display rang high	*3	*3	R/W
1731	PG2PN6HI	Page 2 pen 6 display rang high	*3	*3	R/W
1732	PG3PN6HI	Page 3 pen 6 display rang high	*3	*3	R/W
1733	PG4PN6HI	Page 4 pen 6 display rang high	*3	*3	R/W
1734	PG5PN6HI	Page 5 pen 6 display rang high	*3	*3	R/W
1735	PG6PN6HI	Page 6 pen 6 display rang high	*3	*3	R/W
1736	TM1TP	Timer 1 type	0	65535	R/W
1737	TM2TP	Timer 2 type	0	65535	R/W
1738	TM3TP	Timer 3 type	0	65535	R/W
1739	TM4TP	Timer 4 type	0	65535	R/W
1740	TM5TP	Timer 5 type	0	65535	R/W
1741	TM6TP	Timer 6 type	0	65535	R/W
1742	TM1AC	Timer 1 action	0	65535	R/W
1743	TM2AC	Timer 2 action	0	65535	R/W
1744	TM3AC	Timer 3 action	0	65535	R/W
1745	TM4AC	Timer 4 action	0	65535	R/W
1746	TM5AC	Timer 5 action	0	65535	R/W
1747	TM6AC	Timer 6 action	0	65535	R/W
1748	TM1DY	Timer 1 day parameter	0	65535	R/W
1749	TM2DY	Timer 2 day parameter	0	65535	R/W
1750	TM3DY	Timer 3 day parameter	0	65535	R/W
1751	TM4DY	Timer 4 day parameter	0	65535	R/W
1752	TM5DY	Timer 5 day parameter	0	65535	R/W
1753	TM6DY	Timer 6 day parameter	0	65535	R/W
1754	TM1HR	Timer 1 hour parameter	0	65535	R/W
1755	TM2HR	Timer 2 hour parameter	0	65535	R/W
1756	TM3HR	Timer 3 hour parameter	0	65535	R/W
1757	TM4HR	Timer 4 hour parameter	0	65535	R/W
1758	TM5HR	Timer 5 hour parameter	0	65535	R/W
1759	TM6HR	Timer 6 hour parameter	0	65535	R/W

1760	TM1MN	Timer 1 minute parameter	0	65535	R/W
1761	TM2MN	Timer 2 minute parameter	0	65535	R/W
1762	TM3MN	Timer 3 minute parameter	0	65535	R/W
1763	TM4MN	Timer 4 minute parameter	0	65535	R/W
1764	TM5MN	Timer 5 minute parameter	0	65535	R/W
1765	TM6MN	Timer 6 minute parameter	0	65535	R/W
1766	TM1SD	Timer 1 second parameter	0	65535	R/W
1767	TM2SD	Timer 2 second parameter	0	65535	R/W
1768	TM3SD	Timer 3 second parameter	0	65535	R/W
1769	TM4SD	Timer 4 second parameter	0	65535	R/W
1770	TM5SD	Timer 5 second parameter	0	65535	R/W
1771	TM6SD	Timer 6 second parameter	0	65535	R/W
1772	TM1JB1	Timer 1 job 1	0	65535	R/W
1773	TM2JB1	Timer 2 job 1	0	65535	R/W
1774	TM3JB1	Timer 3 job 1	0	65535	R/W
1775	TM4JB1	Timer 4 job 1	0	65535	R/W
1776	TM5JB1	Timer 5 job 1	0	65535	R/W
1777	TM6JB1	Timer 6 job 1	0	65535	R/W
1778	TM1PM1	Timer 1 job 1 parameter	0	65535	R/W
1779	TM2PM1	Timer 2 job 1 parameter	0	65535	R/W
1780	TM3PM1	Timer 3 job 1 parameter	0	65535	R/W
1781	TM4PM1	Timer 4 job 1 parameter	0	65535	R/W
1782	TM5PM1	Timer 5 job 1 parameter	0	65535	R/W
1783	TM6PM1	Timer 6 job 1 parameter	0	65535	R/W
1784	TM1JB2	Timer 1 job 2	0	65535	R/W
1785	TM2JB2	Timer 2 job 2	0	65535	R/W
1786	TM3JB2	Timer 3 job 2	0	65535	R/W
1787	TM4JB2	Timer 4 job 2	0	65535	R/W
1788	TM5JB2	Timer 5 job 2	0	65535	R/W
1789	TM6JB2	Timer 6 job 2	0	65535	R/W
1790	TM1PM2	Timer 1 job 2 parameter	0	65535	R/W
1791	TM2PM2	Timer 2 job 2 parameter	0	65535	R/W
1792	TM3PM2	Timer 3 job 2 parameter	0	65535	R/W
1793	TM4PM2	Timer 4 job 2 parameter	0	65535	R/W
1794	TM5PM2	Timer 5 job 2 parameter	0	65535	R/W
1795	TM6PM2	Timer 6 job 2 parameter	0	65535	R/W
1796	INNA1	Instrument name char 1~2	0	65535	R/W
1797	INNA2	Instrument name char 3~4	0	65535	R/W
1798	INNA3	Instrument name char 5~6	0	65535	R/W
1799	INPW1	Instrument password char 1~2	0	65535	R/W
1800	INPW2	Instrument password char 3~4	0	65535	R/W
1801	INPW3	Instrument password char 5~6	0	65535	R/W
1802	INPW4	Instrument password char 7~8	0	65535	R/W
1803	INSM	Instrument storage media	0	65535	R/W
1804	INKS	Instrument keypad sound	0	65535	R/W
1805	INDS	Instrument date style	0	65535	R/W
1806	INLA	Instrument language	0	65535	R/W
1807	INEL	Instrument event limit	0	65535	R/W
1808	INSS	Instrument screen saver	0	65535	R/W

1809	INIR	Instrument IR sensor enable	0	65535	R/W
1810	INPT	Instrument communication protocol	0	65535	R
1811	INAD	Instrument address	0	65535	R
1812	INBR	Instrument baud rate	0	65535	R
1813	INDF	Instrument data format	0	65535	R
1814	INIS	Instrument Ethernet IP set method	0	65535	R
1815	INIP1	Instrument Ethernet IP address digital 1~2	0	65535	R
1816	INIP2	Instrument Ethernet IP address digital 3~4	0	65535	R
1817	INSM1	Instrument subnet mask digital 1~2	0	65535	R
1818	INSM2	Instrument subnet mask digital 3~4	0	65535	R
1819	CT1NA1	Counter 1 name char 1~2	0	65535	R/W
1820	CT1NA2	Counter 1 name char 3~4	0	65535	R/W
1821	CT1NA3	Counter 1 name char 5~6	0	65535	R/W
1822	CT2NA1	Counter 2 name char 1~2	0	65535	R/W
1823	CT2NA2	Counter 2 name char 3~4	0	65535	R/W
1824	CT2NA3	Counter 2 name char 5~6	0	65535	R/W
1825	CT3NA1	Counter 3 name char 1~2	0	65535	R/W
1826	CT3NA2	Counter 3 name char 3~4	0	65535	R/W
1827	CT3NA3	Counter 3 name char 5~6	0	65535	R/W
1828	CT4NA1	Counter 4 name char 1~2	0	65535	R/W
1829	CT4NA2	Counter 4 name char 3~4	0	65535	R/W
1830	CT4NA3	Counter 4 name char 5~6	0	65535	R/W
1831	CT5NA1	Counter 5 name char 1~2	0	65535	R/W
1832	CT5NA2	Counter 5 name char 3~4	0	65535	R/W
1833	CT5NA3	Counter 5 name char 5~6	0	65535	R/W
1834	CT6NA1	Counter 6 name char 1~2	0	65535	R/W
1835	CT6NA2	Counter 6 name char 3~4	0	65535	R/W
1836	CT6NA3	Counter 6 name char 5~6	0	65535	R/W
1837	CT1UN1	Counter 1 unit char 1~2	0	65535	R/W
1838	CT1UN2	Counter 1 unit char 3~4	0	65535	R/W
1839	CT1UN3	Counter 1 unit char 5~6	0	65535	R/W
1840	CT2UN1	Counter 2 unit char 1~2	0	65535	R/W
1841	CT2UN2	Counter 2 unit char 3~4	0	65535	R/W
1842	CT2UN3	Counter 2 unit char 5~6	0	65535	R/W
1843	CT3UN1	Counter 3 unit char 1~2	0	65535	R/W
1844	CT3UN2	Counter 3 unit char 3~4	0	65535	R/W
1845	CT3UN3	Counter 3 unit char 5~6	0	65535	R/W
1846	CT4UN1	Counter 4 unit char 1~2	0	65535	R/W
1847	CT4UN2	Counter 4 unit char 3~4	0	65535	R/W
1848	CT4UN3	Counter 4 unit char 5~6	0	65535	R/W
1849	CT5UN1	Counter 5 unit char 1~2	0	65535	R/W
1850	CT5UN2	Counter 5 unit char 3~4	0	65535	R/W
1851	CT5UN3	Counter 5 unit char 5~6	0	65535	R/W
1852	CT6UN1	Counter 6 unit char 1~2	0	65535	R/W
1853	CT6UN2	Counter 6 unit char 3~4	0	65535	R/W
1854	CT6UN3	Counter 6 unit char 5~6	0	65535	R/W
1855	CT1PS	Counter 1 preset value	0	65535	R/W
1856	CT2PS	Counter 2 preset value	0	65535	R/W
1857	CT3PS	Counter 3 preset value	0	65535	R/W

1858	CT4PS	Counter 4 preset value	0	65535	R/W
1859	CT5PS	Counter 5 preset value	0	65535	R/W
1860	CT6PS	Counter 6 preset value	0	65535	R/W
1861	CT1EV1TP	Counter 1 event 1 type	0	65535	R/W
1862	CT2EV1TP	Counter 2 event 1 type	0	65535	R/W
1863	CT3EV1TP	Counter 3 event 1 type	0	65535	R/W
1864	CT4EV1TP	Counter 4 event 1 type	0	65535	R/W
1865	CT5EV1TP	Counter 5 event 1 type	0	65535	R/W
1866	CT6EV1TP	Counter 6 event 1 type	0	65535	R/W
1867	CT1EV1SP	Counter 1 event 1 set point	0	65535	R/W
1868	CT2EV1SP	Counter 2 event 1 set point	0	65535	R/W
1869	CT3EV1SP	Counter 3 event 1 set point	0	65535	R/W
1870	CT4EV1SP	Counter 4 event 1 set point	0	65535	R/W
1871	CT5EV1SP	Counter 5 event 1 set point	0	65535	R/W
1872	CT6EV1SP	Counter 6 event 1 set point	0	65535	R/W
1873	CT1EV1JB1	Counter 1 event 1 job 1	0	65535	R/W
1874	CT2EV1JB1	Counter 2 event 1 job 1	0	65535	R/W
1875	CT3EV1JB1	Counter 3 event 1 job 1	0	65535	R/W
1876	CT4EV1JB1	Counter 4 event 1 job 1	0	65535	R/W
1877	CT5EV1JB1	Counter 5 event 1 job 1	0	65535	R/W
1878	CT6EV1JB1	Counter 6 event 1 job 1	0	65535	R/W
1879	CT1EV1PM1	Counter 1 event 1 job 1 parameter	0	65535	R/W
1880	CT2EV1PM1	Counter 2 event 1 job 1 parameter	0	65535	R/W
1881	CT3EV1PM1	Counter 3 event 1 job 1 parameter	0	65535	R/W
1882	CT4EV1PM1	Counter 4 event 1 job 1 parameter	0	65535	R/W
1883	CT5EV1PM1	Counter 5 event 1 job 1 parameter	0	65535	R/W
1884	CT6EV1PM1	Counter 6 event 1 job 1 parameter	0	65535	R/W
1885	CT1EV1JB2	Counter 1 event 1 job 2	0	65535	R/W
1886	CT2EV1JB2	Counter 2 event 1 job 2	0	65535	R/W
1887	CT3EV1JB2	Counter 3 event 1 job 2	0	65535	R/W
1888	CT4EV1JB2	Counter 4 event 1 job 2	0	65535	R/W
1889	CT5EV1JB2	Counter 5 event 1 job 2	0	65535	R/W
1890	CT6EV1JB2	Counter 6 event 1 job 2	0	65535	R/W
1891	CT1EV1PM2	Counter 1 event 1 job 2 parameter	0	65535	R/W
1892	CT2EV1PM2	Counter 2 event 1 job 2 parameter	0	65535	R/W
1893	CT3EV1PM2	Counter 3 event 1 job 2 parameter	0	65535	R/W
1894	CT4EV1PM2	Counter 4 event 1 job 2 parameter	0	65535	R/W
1895	CT5EV1PM2	Counter 5 event 1 job 2 parameter	0	65535	R/W
1896	CT6EV1PM2	Counter 6 event 1 job 2 parameter	0	65535	R/W
1897	CT1EV2TP	Counter 1 event 2 type	0	65535	R/W
1898	CT2EV2TP	Counter 2 event 2 type	0	65535	R/W
1899	CT3EV2TP	Counter 3 event 2 type	0	65535	R/W
1900	CT4EV2TP	Counter 4 event 2 type	0	65535	R/W
1901	CT5EV2TP	Counter 5 event 2 type	0	65535	R/W
1902	CT6EV2TP	Counter 6 event 2 type	0	65535	R/W
1903	CT1EV2SP	Counter 1 event 2 set point	0	65535	R/W
1904	CT2EV2SP	Counter 2 event 2 set point	0	65535	R/W
1905	CT3EV2SP	Counter 3 event 2 set point	0	65535	R/W
1906	CT4EV2SP	Counter 4 event 2 set point	0	65535	R/W

1907	CT5EV2SP	Counter 5 event 2 set point	0	65535	R/W
1908	CT6EV2SP	Counter 6 event 2 set point	0	65535	R/W
1909	CT1EV2JB1	Counter 1 event 2 job 1	0	65535	R/W
1910	CT2EV2JB1	Counter 2 event 2 job 1	0	65535	R/W
1911	CT3EV2JB1	Counter 3 event 2 job 1	0	65535	R/W
1912	CT4EV2JB1	Counter 4 event 2 job 1	0	65535	R/W
1913	CT5EV2JB1	Counter 5 event 2 job 1	0	65535	R/W
1914	CT6EV2JB1	Counter 6 event 2 job 1	0	65535	R/W
1915	CT1EV2PM1	Counter 1 event 2 job 1 parameter	0	65535	R/W
1916	CT2EV2PM1	Counter 2 event 2 job 1 parameter	0	65535	R/W
1917	CT3EV2PM1	Counter 3 event 2 job 1 parameter	0	65535	R/W
1918	CT4EV2PM1	Counter 4 event 2 job 1 parameter	0	65535	R/W
1919	CT5EV2PM1	Counter 5 event 2 job 1 parameter	0	65535	R/W
1920	CT6EV2PM1	Counter 6 event 2 job 1 parameter	0	65535	R/W
1921	CT1EV2JB2	Counter 1 event 2 job 2	0	65535	R/W
1922	CT2EV2JB2	Counter 2 event 2 job 2	0	65535	R/W
1923	CT3EV2JB2	Counter 3 event 2 job 2	0	65535	R/W
1924	CT4EV2JB2	Counter 4 event 2 job 2	0	65535	R/W
1925	CT5EV2JB2	Counter 5 event 2 job 2	0	65535	R/W
1926	CT6EV2JB2	Counter 6 event 2 job 2	0	65535	R/W
1927	CT1EV2PM2	Counter 1 event 2 job 2 parameter	0	65535	R/W
1928	CT2EV2PM2	Counter 2 event 2 job 2 parameter	0	65535	R/W
1929	CT3EV2PM2	Counter 3 event 2 job 2 parameter	0	65535	R/W
1930	CT4EV2PM2	Counter 4 event 2 job 2 parameter	0	65535	R/W
1931	CT5EV2PM2	Counter 5 event 2 job 2 parameter	0	65535	R/W
1932	CT6EV2PM2	Counter 6 event 2 job 2 parameter	0	65535	R/W
1933	DI1NA1	DI 1 name char 1~2	0	65535	R/W
1934	DI1NA2	DI 1 name char 3~4	0	65535	R/W
1935	DI1NA3	DI 1 name char 5~6	0	65535	R/W
1936	DI2NA1	DI 2 name char 1~2	0	65535	R/W
1937	DI2NA2	DI 2 name char 3~4	0	65535	R/W
1938	DI2NA3	DI 2 name char 5~6	0	65535	R/W
1939	DI3NA1	DI 3 name char 1~2	0	65535	R/W
1940	DI3NA2	DI 3 name char 3~4	0	65535	R/W
1941	DI3NA3	DI 3 name char 5~6	0	65535	R/W
1942	DI4NA1	DI 4 name char 1~2	0	65535	R/W
1943	DI4NA2	DI 4 name char 3~4	0	65535	R/W
1944	DI4NA3	DI 4 name char 5~6	0	65535	R/W
1945	DI5NA1	DI 5 name char 1~2	0	65535	R/W
1946	DI5NA2	DI 5 name char 3~4	0	65535	R/W
1947	DI5NA3	DI 5 name char 5~6	0	65535	R/W
1948	DI6NA1	DI 6 name char 1~2	0	65535	R/W
1949	DI6NA2	DI 6 name char 3~4	0	65535	R/W
1950	DI6NA3	DI 6 name char 5~6	0	65535	R/W
1951	DI7NA1	DI 7 name char 1~2	0	65535	R/W
1952	DI7NA2	DI 7 name char 3~4	0	65535	R/W
1953	DI7NA3	DI 7 name char 5~6	0	65535	R/W
1954	DI8NA1	DI 8 name char 1~2	0	65535	R/W
1955	DI8NA2	DI 8 name char 3~4	0	65535	R/W

1956	DI8NA3	DI 8 name char 5~6	0	65535	R/W
1957	DI9NA1	DI 9 name char 1~2	0	65535	R/W
1958	DI9NA2	DI 9 name char 3~4	0	65535	R/W
1959	DI9NA3	DI 9 name char 5~6	0	65535	R/W
1960	DI10NA1	DI 10 name char 1~2	0	65535	R/W
1961	DI10NA2	DI 10 name char 3~4	0	65535	R/W
1962	DI10NA3	DI 10 name char 5~6	0	65535	R/W
1963	DI11NA1	DI 11 name char 1~2	0	65535	R/W
1964	DI11NA2	DI 11 name char 3~4	0	65535	R/W
1965	DI11NA3	DI 11 name char 5~6	0	65535	R/W
1966	DI12NA1	DI 12 name char 1~2	0	65535	R/W
1967	DI12NA2	DI 12 name char 3~4	0	65535	R/W
1968	DI12NA3	DI 12 name char 5~6	0	65535	R/W
1969	DI1EV1TP	DI 1 event 1 type	0	65535	R/W
1970	DI2EV1TP	DI 2 event 1 type	0	65535	R/W
1971	DI3EV1TP	DI 3 event 1 type	0	65535	R/W
1972	DI4EV1TP	DI 4 event 1 type	0	65535	R/W
1973	DI5EV1TP	DI 5 event 1 type	0	65535	R/W
1974	DI6EV1TP	DI 6 event 1 type	0	65535	R/W
1975	DI7EV1TP	DI 7 event 1 type	0	65535	R/W
1976	DI8EV1TP	DI 8 event 1 type	0	65535	R/W
1977	DI9EV1TP	DI 9 event 1 type	0	65535	R/W
1978	DI10EV1TP	DI 10 event 1 type	0	65535	R/W
1979	DI11EV1TP	DI 11 event 1 type	0	65535	R/W
1980	DI12EV1TP	DI 12 event 1 type	0	65535	R/W
1981	DI1EV1JB1	DI 1 event 1 job 1	0	65535	R/W
1982	DI2EV1JB1	DI 2 event 1 job 1	0	65535	R/W
1983	DI3EV1JB1	DI 3 event 1 job 1	0	65535	R/W
1984	DI4EV1JB1	DI 4 event 1 job 1	0	65535	R/W
1985	DI5EV1JB1	DI 5 event 1 job 1	0	65535	R/W
1986	DI6EV1JB1	DI 6 event 1 job 1	0	65535	R/W
1987	DI7EV1JB1	DI 7 event 1 job 1	0	65535	R/W
1988	DI8EV1JB1	DI 8 event 1 job 1	0	65535	R/W
1989	DI9EV1JB1	DI 9 event 1 job 1	0	65535	R/W
1990	DI10EV1JB1	DI 10 event 1 job 1	0	65535	R/W
1991	DI11EV1JB1	DI 11 event 1 job 1	0	65535	R/W
1992	DI12EV1JB1	DI 12 event 1 job 1	0	65535	R/W
1993	DI1EV1PM1	DI 1 event 1 job 1 parameter	0	65535	R/W
1994	DI2EV1PM1	DI 2 event 1 job 1 parameter	0	65535	R/W
1995	DI3EV1PM1	DI 3 event 1 job 1 parameter	0	65535	R/W
1996	DI4EV1PM1	DI 4 event 1 job 1 parameter	0	65535	R/W
1997	DI5EV1PM1	DI 5 event 1 job 1 parameter	0	65535	R/W
1998	DI6EV1PM1	DI 6 event 1 job 1 parameter	0	65535	R/W
1999	DI7EV1PM1	DI 7 event 1 job 1 parameter	0	65535	R/W
2000	DI8EV1PM1	DI 8 event 1 job 1 parameter	0	65535	R/W
2001	DI9EV1PM1	DI 9 event 1 job 1 parameter	0	65535	R/W
2002	DI10EV1PM1	DI 10 event 1 job 1 parameter	0	65535	R/W
2003	DI11EV1PM1	DI 11 event 1 job 1 parameter	0	65535	R/W
2004	DI12EV1PM1	DI 12 event 1 job 1 parameter	0	65535	R/W

2005	DI1EV1JB2	DI 1 event 1 job 2	0	65535	R/W
2006	DI2EV1JB2	DI 2 event 1 job 2	0	65535	R/W
2007	DI3EV1JB2	DI 3 event 1 job 2	0	65535	R/W
2008	DI4EV1JB2	DI 4 event 1 job 2	0	65535	R/W
2009	DI5EV1JB2	DI 5 event 1 job 2	0	65535	R/W
2010	DI6EV1JB2	DI 6 event 1 job 2	0	65535	R/W
2011	DI7EV1JB2	DI 7 event 1 job 2	0	65535	R/W
2012	DI8EV1JB2	DI 8 event 1 job 2	0	65535	R/W
2013	DI9EV1JB2	DI 9 event 1 job 2	0	65535	R/W
2014	DI10EV1JB2	DI 10 event 1 job 2	0	65535	R/W
2015	DI11EV1JB2	DI 11 event 1 job 2	0	65535	R/W
2016	DI12EV1JB2	DI 12 event 1 job 2	0	65535	R/W
2017	DI1EV1PM2	DI 1 event 1 job 2 parameter	0	65535	R/W
2018	DI2EV1PM2	DI 2 event 1 job 2 parameter	0	65535	R/W
2019	DI3EV1PM2	DI 3 event 1 job 2 parameter	0	65535	R/W
2020	DI4EV1PM2	DI 4 event 1 job 2 parameter	0	65535	R/W
2021	DI5EV1PM2	DI 5 event 1 job 2 parameter	0	65535	R/W
2022	DI6EV1PM2	DI 6 event 1 job 2 parameter	0	65535	R/W
2023	DI7EV1PM2	DI 7 event 1 job 2 parameter	0	65535	R/W
2024	DI8EV1PM2	DI 8 event 1 job 2 parameter	0	65535	R/W
2025	DI9EV1PM2	DI 9 event 1 job 2 parameter	0	65535	R/W
2026	DI10EV1PM2	DI 10 event 1 job 2 parameter	0	65535	R/W
2027	DI11EV1PM2	DI 11 event 1 job 2 parameter	0	65535	R/W
2028	DI12EV1PM2	DI 12 event 1 job 2 parameter	0	65535	R/W
2029	DI1EV2TP	DI 1 event 2 type	0	65535	R/W
2030	DI2EV2TP	DI 2 event 2 type	0	65535	R/W
2031	DI3EV2TP	DI 3 event 2 type	0	65535	R/W
2032	DI4EV2TP	DI 4 event 2 type	0	65535	R/W
2033	DI5EV2TP	DI 5 event 2 type	0	65535	R/W
2034	DI6EV2TP	DI 6 event 2 type	0	65535	R/W
2035	DI7EV2TP	DI 7 event 2 type	0	65535	R/W
2036	DI8EV2TP	DI 8 event 2 type	0	65535	R/W
2037	DI9EV2TP	DI 9 event 2 type	0	65535	R/W
2038	DI10EV2TP	DI 10 event 2 type	0	65535	R/W
2039	DI11EV2TP	DI 11 event 2 type	0	65535	R/W
2040	DI12EV2TP	DI 12 event 2 type	0	65535	R/W
2041	DI1EV2JB1	DI 1 event 2 job 1	0	65535	R/W
2042	DI2EV2JB1	DI 2 event 2 job 1	0	65535	R/W
2043	DI3EV2JB1	DI 3 event 2 job 1	0	65535	R/W
2044	DI4EV2JB1	DI 4 event 2 job 1	0	65535	R/W
2045	DI5EV2JB1	DI 5 event 2 job 1	0	65535	R/W
2046	DI6EV2JB1	DI 6 event 2 job 1	0	65535	R/W
2047	DI7EV2JB1	DI 7 event 2 job 1	0	65535	R/W
2048	DI8EV2JB1	DI 8 event 2 job 1	0	65535	R/W
2049	DI9EV2JB1	DI 9 event 2 job 1	0	65535	R/W
2050	DI10EV2JB1	DI 10 event 2 job 1	0	65535	R/W
2051	DI11EV2JB1	DI 11 event 2 job 1	0	65535	R/W
2052	DI12EV2JB1	DI 12 event 2 job 1	0	65535	R/W
2053	DI1EV2PM1	DI 1 event 2 job 1 parameter	0	65535	R/W

2054	DI2EV2PM1	DI 2 event 2 job 1 parameter	0	65535	R/W
2055	DI3EV2PM1	DI 3 event 2 job 1 parameter	0	65535	R/W
2056	DI4EV2PM1	DI 4 event 2 job 1 parameter	0	65535	R/W
2057	DI5EV2PM1	DI 5 event 2 job 1 parameter	0	65535	R/W
2058	DI6EV2PM1	DI 6 event 2 job 1 parameter	0	65535	R/W
2059	DI7EV2PM1	DI 7 event 2 job 1 parameter	0	65535	R/W
2060	DI8EV2PM1	DI 8 event 2 job 1 parameter	0	65535	R/W
2061	DI9EV2PM1	DI 9 event 2 job 1 parameter	0	65535	R/W
2062	DI10EV2PM1	DI 10 event 2 job 1 parameter	0	65535	R/W
2063	DI11EV2PM1	DI 11 event 2 job 1 parameter	0	65535	R/W
2064	DI12EV2PM1	DI 12 event 2 job 1 parameter	0	65535	R/W
2065	DI1EV2JB2	DI 1 event 2 job 2	0	65535	R/W
2066	DI2EV2JB2	DI 2 event 2 job 2	0	65535	R/W
2067	DI3EV2JB2	DI 3 event 2 job 2	0	65535	R/W
2068	DI4EV2JB2	DI 4 event 2 job 2	0	65535	R/W
2069	DI5EV2JB2	DI 5 event 2 job 2	0	65535	R/W
2070	DI6EV2JB2	DI 6 event 2 job 2	0	65535	R/W
2071	DI7EV2JB2	DI 7 event 2 job 2	0	65535	R/W
2072	DI8EV2JB2	DI 8 event 2 job 2	0	65535	R/W
2073	DI9EV2JB2	DI 9 event 2 job 2	0	65535	R/W
2074	DI10EV2JB2	DI 10 event 2 job 2	0	65535	R/W
2075	DI11EV2JB2	DI 11 event 2 job 2	0	65535	R/W
2076	DI12EV2JB2	DI 12 event 2 job 2	0	65535	R/W
2077	DI1EV2PM2	DI 1 event 2 job 2 parameter	0	65535	R/W
2078	DI2EV2PM2	DI 2 event 2 job 2 parameter	0	65535	R/W
2079	DI3EV2PM2	DI 3 event 2 job 2 parameter	0	65535	R/W
2080	DI4EV2PM2	DI 4 event 2 job 2 parameter	0	65535	R/W
2081	DI5EV2PM2	DI 5 event 2 job 2 parameter	0	65535	R/W
2082	DI6EV2PM2	DI 6 event 2 job 2 parameter	0	65535	R/W
2083	DI7EV2PM2	DI 7 event 2 job 2 parameter	0	65535	R/W
2084	DI8EV2PM2	DI 8 event 2 job 2 parameter	0	65535	R/W
2085	DI9EV2PM2	DI 9 event 2 job 2 parameter	0	65535	R/W
2086	DI10EV2PM2	DI 10 event 2 job 2 parameter	0	65535	R/W
2087	DI11EV2PM2	DI 11 event 2 job 2 parameter	0	65535	R/W
2088	DI12EV2PM2	DI 12 event 2 job 2 parameter	0	65535	R/W
2089	TZ1NA1	Totalizer 1 name char 1~2	0	65535	R/W
2090	TZ1NA2	Totalizer 1 name char 3~4	0	65535	R/W
2091	TZ1NA3	Totalizer 1 name char 5~6	0	65535	R/W
2092	TZ2NA1	Totalizer 2 name char 1~2	0	65535	R/W
2093	TZ2NA2	Totalizer 2 name char 3~4	0	65535	R/W
2094	TZ2NA3	Totalizer 2 name char 5~6	0	65535	R/W
2095	TZ3NA1	Totalizer 3 name char 1~2	0	65535	R/W
2096	TZ3NA2	Totalizer 3 name char 3~4	0	65535	R/W
2097	TZ3NA3	Totalizer 3 name char 5~6	0	65535	R/W
2098	TZ4NA1	Totalizer 4 name char 1~2	0	65535	R/W
2099	TZ4NA2	Totalizer 4 name char 3~4	0	65535	R/W
2100	TZ4NA3	Totalizer 4 name char 5~6	0	65535	R/W
2101	TZ5NA1	Totalizer 5 name char 1~2	0	65535	R/W
2102	TZ5NA2	Totalizer 5 name char 3~4	0	65535	R/W

2103	TZ5NA3	Totalizer 5 name char 5~6	0	65535	R/W
2104	TZ6NA1	Totalizer 6 name char 1~2	0	65535	R/W
2105	TZ6NA2	Totalizer 6 name char 3~4	0	65535	R/W
2106	TZ6NA3	Totalizer 6 name char 5~6	0	65535	R/W
2107	TZ1SR	Totalizer 1 source	0	65535	R/W
2108	TZ2SR	Totalizer 2 source	0	65535	R/W
2109	TZ3SR	Totalizer 3 source	0	65535	R/W
2110	TZ4SR	Totalizer 4 source	0	65535	R/W
2111	TZ5SR	Totalizer 5 source	0	65535	R/W
2112	TZ6SR	Totalizer 6 source	0	65535	R/W
2113	TZ1AC	Totalizer 1 action	0	65535	R/W
2114	TZ2AC	Totalizer 2 action	0	65535	R/W
2115	TZ3AC	Totalizer 3 action	0	65535	R/W
2116	TZ4AC	Totalizer 4 action	0	65535	R/W
2117	TZ5AC	Totalizer 5 action	0	65535	R/W
2118	TZ6AC	Totalizer 6 action	0	65535	R/W
2119	TZ1DP	Totalizer 1 decimal point	0	65535	R/W
2120	TZ2DP	Totalizer 2 decimal point	0	65535	R/W
2121	TZ3DP	Totalizer 3 decimal point	0	65535	R/W
2122	TZ4DP	Totalizer 4 decimal point	0	65535	R/W
2123	TZ5DP	Totalizer 5 decimal point	0	65535	R/W
2124	TZ6DP	Totalizer 6 decimal point	0	65535	R/W
2125	TZ1PI	Totalizer 1 period	0	65535	R/W
2126	TZ2PI	Totalizer 2 period	0	65535	R/W
2127	TZ3PI	Totalizer 3 period	0	65535	R/W
2128	TZ4PI	Totalizer 4 period	0	65535	R/W
2129	TZ5PI	Totalizer 5 period	0	65535	R/W
2130	TZ6PI	Totalizer 6 period	0	65535	R/W
2131	TZ1UN1	Totalizer 1 unit char 1~2	0	65535	R/W
2132	TZ1UN2	Totalizer 1 unit char 3~4	0	65535	R/W
2133	TZ1UN3	Totalizer 1 unit char 5~6	0	65535	R/W
2134	TZ2UN1	Totalizer 2 unit char 1~2	0	65535	R/W
2135	TZ2UN2	Totalizer 2 unit char 3~4	0	65535	R/W
2136	TZ2UN3	Totalizer 2 unit char 5~6	0	65535	R/W
2137	TZ3UN1	Totalizer 3 unit char 1~2	0	65535	R/W
2138	TZ3UN2	Totalizer 3 unit char 3~4	0	65535	R/W
2139	TZ3UN3	Totalizer 3 unit char 5~6	0	65535	R/W
2140	TZ4UN1	Totalizer 4 unit char 1~2	0	65535	R/W
2141	TZ4UN2	Totalizer 4 unit char 3~4	0	65535	R/W
2142	TZ4UN3	Totalizer 4 unit char 5~6	0	65535	R/W
2143	TZ5UN1	Totalizer 5 unit char 1~2	0	65535	R/W
2144	TZ5UN2	Totalizer 5 unit char 3~4	0	65535	R/W
2145	TZ5UN3	Totalizer 5 unit char 5~6	0	65535	R/W
2146	TZ6UN1	Totalizer 6 unit char 1~2	0	65535	R/W
2147	TZ6UN2	Totalizer 6 unit char 3~4	0	65535	R/W
2148	TZ6UN3	Totalizer 6 unit char 5~6	0	65535	R/W
2149	TZ1PSH	Totalizer 1 preset hi word	*4	*4	R/W
2150	TZ1PSL	Totalizer 1 preset low word	*4	*4	R/W
2151	TZ2PSH	Totalizer 2 preset hi word	*4	*4	R/W

2152	TZ2PSL	Totalizer 2 preset low word	*4	*4	R/W
2153	TZ3PSH	Totalizer 3 preset hi word	*4	*4	R/W
2154	TZ3PSL	Totalizer 3 preset low word	*4	*4	R/W
2155	TZ4PSH	Totalizer 4 preset hi word	*4	*4	R/W
2156	TZ4PSL	Totalizer 4 preset low word	*4	*4	R/W
2157	TZ5PSH	Totalizer 5 preset hi word	*4	*4	R/W
2158	TZ5PSL	Totalizer 5 preset low word	*4	*4	R/W
2159	TZ6PSH	Totalizer 6 preset hi word	*4	*4	R/W
2160	TZ6PSL	Totalizer 6 preset low word	*4	*4	R/W
2161	TZ1EV1TP	Totalizer 1 event 1 type	0	65535	R/W
2162	TZ2EV1TP	Totalizer 2 event 1 type	0	65535	R/W
2163	TZ3EV1TP	Totalizer 3 event 1 type	0	65535	R/W
2164	TZ4EV1TP	Totalizer 4 event 1 type	0	65535	R/W
2165	TZ5EV1TP	Totalizer 5 event 1 type	0	65535	R/W
2166	TZ6EV1TP	Totalizer 6 event 1 type	0	65535	R/W
2167	TZ1EV1SP	Totalizer 1 event 1 set point	*5	*5	
2168	TZ2EV1SP	Totalizer 2 event 1 set point	*5	*5	
2169	TZ3EV1SP	Totalizer 3 event 1 set point	*5	*5	
2170	TZ4EV1SP	Totalizer 4 event 1 set point	*5	*5	
2171	TZ5EV1SP	Totalizer 5 event 1 set point	*5	*5	
2172	TZ6EV1SP	Totalizer 6 event 1 set point	*5	*5	
2173	TZ1EV1JB1	Totalizer 1 event 1 job 1	0	65535	R/W
2174	TZ2EV1JB1	Totalizer 2 event 1 job 1	0	65535	R/W
2175	TZ3EV1JB1	Totalizer 3 event 1 job 1	0	65535	R/W
2176	TZ4EV1JB1	Totalizer 4 event 1 job 1	0	65535	R/W
2177	TZ5EV1JB1	Totalizer 5 event 1 job 1	0	65535	R/W
2178	TZ6EV1JB1	Totalizer 6 event 1 job 1	0	65535	R/W
2179	TZ1EV1PM1	Totalizer 1 event 1 job 1 parameter	0	65535	R/W
2180	TZ2EV1PM1	Totalizer 2 event 1 job 1 parameter	0	65535	R/W
2181	TZ3EV1PM1	Totalizer 3 event 1 job 1 parameter	0	65535	R/W
2182	TZ4EV1PM1	Totalizer 4 event 1 job 1 parameter	0	65535	R/W
2183	TZ5EV1PM1	Totalizer 5 event 1 job 1 parameter	0	65535	R/W
2184	TZ6EV1PM1	Totalizer 6 event 1 job 1 parameter	0	65535	R/W
2185	TZ1EV1JB2	Totalizer 1 event 1 job 2	0	65535	R/W
2186	TZ2EV1JB2	Totalizer 2 event 1 job 2	0	65535	R/W
2187	TZ3EV1JB2	Totalizer 3 event 1 job 2	0	65535	R/W
2188	TZ4EV1JB2	Totalizer 4 event 1 job 2	0	65535	R/W
2189	TZ5EV1JB2	Totalizer 5 event 1 job 2	0	65535	R/W
2190	TZ6EV1JB2	Totalizer 6 event 1 job 2	0	65535	R/W
2191	TZ1EV1PM2	Totalizer 1 event 1 job 2 parameter	0	65535	R/W
2192	TZ2EV1PM2	Totalizer 2 event 1 job 2 parameter	0	65535	R/W
2193	TZ3EV1PM2	Totalizer 3 event 1 job 2 parameter	0	65535	R/W
2194	TZ4EV1PM2	Totalizer 4 event 1 job 2 parameter	0	65535	R/W
2195	TZ5EV1PM2	Totalizer 5 event 1 job 2 parameter	0	65535	R/W
2196	TZ6EV1PM2	Totalizer 6 event 1 job 2 parameter	0	65535	R/W
2197	TZ1EV2TP	Totalizer 1 event 2 type	0	65535	R/W
2198	TZ2EV2TP	Totalizer 2 event 2 type	0	65535	R/W
2199	TZ3EV2TP	Totalizer 3 event 2 type	0	65535	R/W
2200	TZ4EV2TP	Totalizer 4 event 2 type	0	65535	R/W

2201	TZ5EV2TP	Totalizer 5 event 2 type	0	65535	R/W
2202	TZ6EV2TP	Totalizer 6 event 2 type	0	65535	R/W
2203	TZ1EV2SP	Totalizer 1 event 2 set point	*5	*5	
2204	TZ2EV2SP	Totalizer 2 event 2 set point	*5	*5	
2205	TZ3EV2SP	Totalizer 3 event 2 set point	*5	*5	
2206	TZ4EV2SP	Totalizer 4 event 2 set point	*5	*5	
2207	TZ5EV2SP	Totalizer 5 event 2 set point	*5	*5	
2208	TZ6EV2SP	Totalizer 6 event 2 set point	*5	*5	
2209	TZ1EV2JB1	Totalizer 1 event 2 job 1	0	65535	R/W
2210	TZ2EV2JB1	Totalizer 2 event 2 job 1	0	65535	R/W
2211	TZ3EV2JB1	Totalizer 3 event 2 job 1	0	65535	R/W
2212	TZ4EV2JB1	Totalizer 4 event 2 job 1	0	65535	R/W
2213	TZ5EV2JB1	Totalizer 5 event 2 job 1	0	65535	R/W
2214	TZ6EV2JB1	Totalizer 6 event 2 job 1	0	65535	R/W
2215	TZ1EV2PM1	Totalizer 1 event 2 job 1 parameter	0	65535	R/W
2216	TZ2EV2PM1	Totalizer 2 event 2 job 1 parameter	0	65535	R/W
2217	TZ3EV2PM1	Totalizer 3 event 2 job 1 parameter	0	65535	R/W
2218	TZ4EV2PM1	Totalizer 4 event 2 job 1 parameter	0	65535	R/W
2219	TZ5EV2PM1	Totalizer 5 event 2 job 1 parameter	0	65535	R/W
2220	TZ6EV2PM1	Totalizer 6 event 2 job 1 parameter	0	65535	R/W
2221	TZ1EV2JB2	Totalizer 1 event 2 job 2	0	65535	R/W
2222	TZ2EV2JB2	Totalizer 2 event 2 job 2	0	65535	R/W
2223	TZ3EV2JB2	Totalizer 3 event 2 job 2	0	65535	R/W
2224	TZ4EV2JB2	Totalizer 4 event 2 job 2	0	65535	R/W
2225	TZ5EV2JB2	Totalizer 5 event 2 job 2	0	65535	R/W
2226	TZ6EV2JB2	Totalizer 6 event 2 job 2	0	65535	R/W
2227	TZ1EV2PM2	Totalizer 1 event 2 job 2 parameter	0	65535	R/W
2228	TZ2EV2PM2	Totalizer 2 event 2 job 2 parameter	0	65535	R/W
2229	TZ3EV2PM2	Totalizer 3 event 2 job 2 parameter	0	65535	R/W
2230	TZ4EV2PM2	Totalizer 4 event 2 job 2 parameter	0	65535	R/W
2231	TZ5EV2PM2	Totalizer 5 event 2 job 2 parameter	0	65535	R/W
2232	TZ6EV2PM2	Totalizer 6 event 2 job 2 parameter	0	65535	R/W
2233	MA1EX1	Math 1 expression char 1~2	0	65535	R/W
2234	MA1EX2	Math 1 expression char 3~4	0	65535	R/W
2235	MA1EX3	Math 1 expression char 5~6	0	65535	R/W
2236	MA1EX4	Math 1 expression char 7~8	0	65535	R/W
2237	MA1EX5	Math 1 expression char 9~10	0	65535	R/W
2238	MA1EX6	Math 1 expression char 11~12	0	65535	R/W
2239	MA1EX7	Math 1 expression char 13~14	0	65535	R/W
2240	MA1EX8	Math 1 expression char 15~16	0	65535	R/W
2241	MA1EX9	Math 1 expression char 17~18	0	65535	R/W
2242	MA1EX10	Math 1 expression char 19~20	0	65535	R/W
2243	MA1EX11	Math 1 expression char 21~22	0	65535	R/W
2244	MA1EX12	Math 1 expression char 23~24	0	65535	R/W
2245	MA1EX13	Math 1 expression char 25~26	0	65535	R/W
2246	MA1EX14	Math 1 expression char 27~28	0	65535	R/W
2247	MA1EX15	Math 1 expression char 29~30	0	65535	R/W
2248	MA1EX16	Math 1 expression char 31~32	0	65535	R/W
2249	MA1EX17	Math 1 expression char 33~34	0	65535	R/W

2250	MA1EX18	Math 1 expression char 35~36	0	65535	R/W
2251	MA2EX1	Math 2 expression char 1~2	0	65535	R/W
2252	MA2EX2	Math 2 expression char 3~4	0	65535	R/W
2253	MA2EX3	Math 2 expression char 5~6	0	65535	R/W
2254	MA2EX4	Math 2 expression char 7~8	0	65535	R/W
2255	MA2EX5	Math 2 expression char 9~10	0	65535	R/W
2256	MA2EX6	Math 2 expression char 11~12	0	65535	R/W
2257	MA2EX7	Math 2 expression char 13~14	0	65535	R/W
2258	MA2EX8	Math 2 expression char 15~16	0	65535	R/W
2259	MA2EX9	Math 2 expression char 17~18	0	65535	R/W
2260	MA2EX10	Math 2 expression char 19~20	0	65535	R/W
2261	MA2EX11	Math 2 expression char 21~22	0	65535	R/W
2262	MA2EX12	Math 2 expression char 23~24	0	65535	R/W
2263	MA2EX13	Math 2 expression char 25~26	0	65535	R/W
2264	MA2EX14	Math 2 expression char 27~28	0	65535	R/W
2265	MA2EX15	Math 2 expression char 29~30	0	65535	R/W
2266	MA2EX16	Math 2 expression char 31~32	0	65535	R/W
2267	MA2EX17	Math 2 expression char 33~34	0	65535	R/W
2268	MA2EX18	Math 2 expression char 35~36	0	65535	R/W
2269	MA3EX1	Math 3 expression char 1~2	0	65535	R/W
2270	MA3EX2	Math 3 expression char 3~4	0	65535	R/W
2271	MA3EX3	Math 3 expression char 5~6	0	65535	R/W
2272	MA3EX4	Math 3 expression char 7~8	0	65535	R/W
2273	MA3EX5	Math 3 expression char 9~10	0	65535	R/W
2274	MA3EX6	Math 3 expression char 11~12	0	65535	R/W
2275	MA3EX7	Math 3 expression char 13~14	0	65535	R/W
2276	MA3EX8	Math 3 expression char 15~16	0	65535	R/W
2277	MA3EX9	Math 3 expression char 17~18	0	65535	R/W
2278	MA3EX10	Math 3 expression char 19~20	0	65535	R/W
2279	MA3EX11	Math 3 expression char 21~22	0	65535	R/W
2280	MA3EX12	Math 3 expression char 23~24	0	65535	R/W
2281	MA3EX13	Math 3 expression char 25~26	0	65535	R/W
2282	MA3EX14	Math 3 expression char 27~28	0	65535	R/W
2283	MA3EX15	Math 3 expression char 29~30	0	65535	R/W
2284	MA3EX16	Math 3 expression char 31~32	0	65535	R/W
2285	MA3EX17	Math 3 expression char 33~34	0	65535	R/W
2286	MA3EX18	Math 3 expression char 35~36	0	65535	R/W
2287	MA4EX1	Math 4 expression char 1~2	0	65535	R/W
2288	MA4EX2	Math 4 expression char 3~4	0	65535	R/W
2289	MA4EX3	Math 4 expression char 5~6	0	65535	R/W
2290	MA4EX4	Math 4 expression char 7~8	0	65535	R/W
2291	MA4EX5	Math 4 expression char 9~10	0	65535	R/W
2292	MA4EX6	Math 4 expression char 11~12	0	65535	R/W
2293	MA4EX7	Math 4 expression char 13~14	0	65535	R/W
2294	MA4EX8	Math 4 expression char 15~16	0	65535	R/W
2295	MA4EX9	Math 4 expression char 17~18	0	65535	R/W
2296	MA4EX10	Math 4 expression char 19~20	0	65535	R/W
2297	MA4EX11	Math 4 expression char 21~22	0	65535	R/W
2298	MA4EX12	Math 4 expression char 23~24	0	65535	R/W

2299	MA4EX13	Math 4 expression char 25~26	0	65535	R/W
2300	MA4EX14	Math 4 expression char 27~28	0	65535	R/W
2301	MA4EX15	Math 4 expression char 29~30	0	65535	R/W
2302	MA4EX16	Math 4 expression char 31~32	0	65535	R/W
2303	MA4EX17	Math 4 expression char 33~34	0	65535	R/W
2304	MA4EX18	Math 4 expression char 35~36	0	65535	R/W
2305	MA5EX1	Math 5 expression char 1~2	0	65535	R/W
2306	MA5EX2	Math 5 expression char 3~4	0	65535	R/W
2307	MA5EX3	Math 5 expression char 5~6	0	65535	R/W
2308	MA5EX4	Math 5 expression char 7~8	0	65535	R/W
2309	MA5EX5	Math 5 expression char 9~10	0	65535	R/W
2310	MA5EX6	Math 5 expression char 11~12	0	65535	R/W
2311	MA5EX7	Math 5 expression char 13~14	0	65535	R/W
2312	MA5EX8	Math 5 expression char 15~16	0	65535	R/W
2313	MA5EX9	Math 5 expression char 17~18	0	65535	R/W
2314	MA5EX10	Math 5 expression char 19~20	0	65535	R/W
2315	MA5EX11	Math 5 expression char 21~22	0	65535	R/W
2316	MA5EX12	Math 5 expression char 23~24	0	65535	R/W
2317	MA5EX13	Math 5 expression char 25~26	0	65535	R/W
2318	MA5EX14	Math 5 expression char 27~28	0	65535	R/W
2319	MA5EX15	Math 5 expression char 29~30	0	65535	R/W
2320	MA5EX16	Math 5 expression char 31~32	0	65535	R/W
2321	MA5EX17	Math 5 expression char 33~34	0	65535	R/W
2322	MA5EX18	Math 5 expression char 35~36	0	65535	R/W
2323	MA6EX1	Math 6 expression char 1~2	0	65535	R/W
2324	MA6EX2	Math 6 expression char 3~4	0	65535	R/W
2325	MA6EX3	Math 6 expression char 5~6	0	65535	R/W
2326	MA6EX4	Math 6 expression char 7~8	0	65535	R/W
2327	MA6EX5	Math 6 expression char 9~10	0	65535	R/W
2328	MA6EX6	Math 6 expression char 11~12	0	65535	R/W
2329	MA6EX7	Math 6 expression char 13~14	0	65535	R/W
2330	MA6EX8	Math 6 expression char 15~16	0	65535	R/W
2331	MA6EX9	Math 6 expression char 17~18	0	65535	R/W
2332	MA6EX10	Math 6 expression char 19~20	0	65535	R/W
2333	MA6EX11	Math 6 expression char 21~22	0	65535	R/W
2334	MA6EX12	Math 6 expression char 23~24	0	65535	R/W
2335	MA6EX13	Math 6 expression char 25~26	0	65535	R/W
2336	MA6EX14	Math 6 expression char 27~28	0	65535	R/W
2337	MA6EX15	Math 6 expression char 29~30	0	65535	R/W
2338	MA6EX16	Math 6 expression char 31~32	0	65535	R/W
2339	MA6EX17	Math 6 expression char 33~34	0	65535	R/W
2340	MA6EX18	Math 6 expression char 35~36	0	65535	R/W
2341	MA7EX1	Math 7 expression char 1~2	0	65535	R/W
2342	MA7EX2	Math 7 expression char 3~4	0	65535	R/W
2343	MA7EX3	Math 7 expression char 5~6	0	65535	R/W
2344	MA7EX4	Math 7 expression char 7~8	0	65535	R/W
2345	MA7EX5	Math 7 expression char 9~10	0	65535	R/W
2346	MA7EX6	Math 7 expression char 11~12	0	65535	R/W
2347	MA7EX7	Math 7 expression char 13~14	0	65535	R/W

2348	MA7EX8	Math 7 expression char 15~16	0	65535	R/W
2349	MA7EX9	Math 7 expression char 17~18	0	65535	R/W
2350	MA7EX10	Math 7 expression char 19~20	0	65535	R/W
2351	MA7EX11	Math 7 expression char 21~22	0	65535	R/W
2352	MA7EX12	Math 7 expression char 23~24	0	65535	R/W
2353	MA7EX13	Math 7 expression char 25~26	0	65535	R/W
2354	MA7EX14	Math 7 expression char 27~28	0	65535	R/W
2355	MA7EX15	Math 7 expression char 29~30	0	65535	R/W
2356	MA7EX16	Math 7 expression char 31~32	0	65535	R/W
2357	MA7EX17	Math 7 expression char 33~34	0	65535	R/W
2358	MA7EX18	Math 7 expression char 35~36	0	65535	R/W
2359	MA8EX1	Math 8 expression char 1~2	0	65535	R/W
2360	MA8EX2	Math 8 expression char 3~4	0	65535	R/W
2361	MA8EX3	Math 8 expression char 5~6	0	65535	R/W
2362	MA8EX4	Math 8 expression char 7~8	0	65535	R/W
2363	MA8EX5	Math 8 expression char 9~10	0	65535	R/W
2364	MA8EX6	Math 8 expression char 11~12	0	65535	R/W
2365	MA8EX7	Math 8 expression char 13~14	0	65535	R/W
2366	MA8EX8	Math 8 expression char 15~16	0	65535	R/W
2367	MA8EX9	Math 8 expression char 17~18	0	65535	R/W
2368	MA8EX10	Math 8 expression char 19~20	0	65535	R/W
2369	MA8EX11	Math 8 expression char 21~22	0	65535	R/W
2370	MA8EX12	Math 8 expression char 23~24	0	65535	R/W
2371	MA8EX13	Math 8 expression char 25~26	0	65535	R/W
2372	MA8EX14	Math 8 expression char 27~28	0	65535	R/W
2373	MA8EX15	Math 8 expression char 29~30	0	65535	R/W
2374	MA8EX16	Math 8 expression char 31~32	0	65535	R/W
2375	MA8EX17	Math 8 expression char 33~34	0	65535	R/W
2376	MA8EX18	Math 8 expression char 35~36	0	65535	R/W
2377	MA9EX1	Math 9 expression char 1~2	0	65535	R/W
2378	MA9EX2	Math 9 expression char 3~4	0	65535	R/W
2379	MA9EX3	Math 9 expression char 5~6	0	65535	R/W
2380	MA9EX4	Math 9 expression char 7~8	0	65535	R/W
2381	MA9EX5	Math 9 expression char 9~10	0	65535	R/W
2382	MA9EX6	Math 9 expression char 11~12	0	65535	R/W
2383	MA9EX7	Math 9 expression char 13~14	0	65535	R/W
2384	MA9EX8	Math 9 expression char 15~16	0	65535	R/W
2385	MA9EX9	Math 9 expression char 17~18	0	65535	R/W
2386	MA9EX10	Math 9 expression char 19~20	0	65535	R/W
2387	MA9EX11	Math 9 expression char 21~22	0	65535	R/W
2388	MA9EX12	Math 9 expression char 23~24	0	65535	R/W
2389	MA9EX13	Math 9 expression char 25~26	0	65535	R/W
2390	MA9EX14	Math 9 expression char 27~28	0	65535	R/W
2391	MA9EX15	Math 9 expression char 29~30	0	65535	R/W
2392	MA9EX16	Math 9 expression char 31~32	0	65535	R/W
2393	MA9EX17	Math 9 expression char 33~34	0	65535	R/W
2394	MA9EX18	Math 9 expression char 35~36	0	65535	R/W
2395	MA10EX1	Math 10 expression char 1~2	0	65535	R/W
2396	MA10EX2	Math 10 expression char 3~4	0	65535	R/W

2397	MA10EX3	Math 10 expression char 5~6	0	65535	R/W
2398	MA10EX4	Math 10 expression char 7~8	0	65535	R/W
2399	MA10EX5	Math 10 expression char 9~10	0	65535	R/W
2400	MA10EX6	Math 10 expression char 11~12	0	65535	R/W
2401	MA10EX7	Math 10 expression char 13~14	0	65535	R/W
2402	MA10EX8	Math 10 expression char 15~16	0	65535	R/W
2403	MA10EX9	Math 10 expression char 17~18	0	65535	R/W
2404	MA10EX10	Math 10 expression char 19~20	0	65535	R/W
2405	MA10EX11	Math 10 expression char 21~22	0	65535	R/W
2406	MA10EX12	Math 10 expression char 23~24	0	65535	R/W
2407	MA10EX13	Math 10 expression char 25~26	0	65535	R/W
2408	MA10EX14	Math 10 expression char 27~28	0	65535	R/W
2409	MA10EX15	Math 10 expression char 29~30	0	65535	R/W
2410	MA10EX16	Math 10 expression char 31~32	0	65535	R/W
2411	MA10EX17	Math 10 expression char 33~34	0	65535	R/W
2412	MA10EX18	Math 10 expression char 35~36	0	65535	R/W
2413	MA11EX1	Math 11 expression char 1~2	0	65535	R/W
2414	MA11EX2	Math 11 expression char 3~4	0	65535	R/W
2415	MA11EX3	Math 11 expression char 5~6	0	65535	R/W
2416	MA11EX4	Math 11 expression char 7~8	0	65535	R/W
2417	MA11EX5	Math 11 expression char 9~10	0	65535	R/W
2418	MA11EX6	Math 11 expression char 11~12	0	65535	R/W
2419	MA11EX7	Math 11 expression char 13~14	0	65535	R/W
2420	MA11EX8	Math 11 expression char 15~16	0	65535	R/W
2421	MA11EX9	Math 11 expression char 17~18	0	65535	R/W
2422	MA11EX10	Math 11 expression char 19~20	0	65535	R/W
2423	MA11EX11	Math 11 expression char 21~22	0	65535	R/W
2424	MA11EX12	Math 11 expression char 23~24	0	65535	R/W
2425	MA11EX13	Math 11 expression char 25~26	0	65535	R/W
2426	MA11EX14	Math 11 expression char 27~28	0	65535	R/W
2427	MA11EX15	Math 11 expression char 29~30	0	65535	R/W
2428	MA11EX16	Math 11 expression char 31~32	0	65535	R/W
2429	MA11EX17	Math 11 expression char 33~34	0	65535	R/W
2430	MA11EX18	Math 11 expression char 35~36	0	65535	R/W
2431	MA12EX1	Math 12 expression char 1~2	0	65535	R/W
2432	MA12EX2	Math 12 expression char 3~4	0	65535	R/W
2433	MA12EX3	Math 12 expression char 5~6	0	65535	R/W
2434	MA12EX4	Math 12 expression char 7~8	0	65535	R/W
2435	MA12EX5	Math 12 expression char 9~10	0	65535	R/W
2436	MA12EX6	Math 12 expression char 11~12	0	65535	R/W
2437	MA12EX7	Math 12 expression char 13~14	0	65535	R/W
2438	MA12EX8	Math 12 expression char 15~16	0	65535	R/W
2439	MA12EX9	Math 12 expression char 17~18	0	65535	R/W
2440	MA12EX10	Math 12 expression char 19~20	0	65535	R/W
2441	MA12EX11	Math 12 expression char 21~22	0	65535	R/W
2442	MA12EX12	Math 12 expression char 23~24	0	65535	R/W
2443	MA12EX13	Math 12 expression char 25~26	0	65535	R/W
2444	MA12EX14	Math 12 expression char 27~28	0	65535	R/W
2445	MA12EX15	Math 12 expression char 29~30	0	65535	R/W

2446	MA12EX16	Math 12 expression char 31~32	0	65535	R/W
2447	MA12EX17	Math 12 expression char 33~34	0	65535	R/W
2448	MA12EX18	Math 12 expression char 35~36	0	65535	R/W
2449	MA13EX1	Math 13 expression char 1~2	0	65535	R/W
2450	MA13EX2	Math 13 expression char 3~4	0	65535	R/W
2451	MA13EX3	Math 13 expression char 5~6	0	65535	R/W
2452	MA13EX4	Math 13 expression char 7~8	0	65535	R/W
2453	MA13EX5	Math 13 expression char 9~10	0	65535	R/W
2454	MA13EX6	Math 13 expression char 11~12	0	65535	R/W
2455	MA13EX7	Math 13 expression char 13~14	0	65535	R/W
2456	MA13EX8	Math 13 expression char 15~16	0	65535	R/W
2457	MA13EX9	Math 13 expression char 17~18	0	65535	R/W
2458	MA13EX10	Math 13 expression char 19~20	0	65535	R/W
2459	MA13EX11	Math 13 expression char 21~22	0	65535	R/W
2460	MA13EX12	Math 13 expression char 23~24	0	65535	R/W
2461	MA13EX13	Math 13 expression char 25~26	0	65535	R/W
2462	MA13EX14	Math 13 expression char 27~28	0	65535	R/W
2463	MA13EX15	Math 13 expression char 29~30	0	65535	R/W
2464	MA13EX16	Math 13 expression char 31~32	0	65535	R/W
2465	MA13EX17	Math 13 expression char 33~34	0	65535	R/W
2466	MA13EX18	Math 13 expression char 35~36	0	65535	R/W
2467	MA14EX1	Math 14 expression char 1~2	0	65535	R/W
2468	MA14EX2	Math 14 expression char 3~4	0	65535	R/W
2469	MA14EX3	Math 14 expression char 5~6	0	65535	R/W
2470	MA14EX4	Math 14 expression char 7~8	0	65535	R/W
2471	MA14EX5	Math 14 expression char 9~10	0	65535	R/W
2472	MA14EX6	Math 14 expression char 11~12	0	65535	R/W
2473	MA14EX7	Math 14 expression char 13~14	0	65535	R/W
2474	MA14EX8	Math 14 expression char 15~16	0	65535	R/W
2475	MA14EX9	Math 14 expression char 17~18	0	65535	R/W
2476	MA14EX10	Math 14 expression char 19~20	0	65535	R/W
2477	MA14EX11	Math 14 expression char 21~22	0	65535	R/W
2478	MA14EX12	Math 14 expression char 23~24	0	65535	R/W
2479	MA14EX13	Math 14 expression char 25~26	0	65535	R/W
2480	MA14EX14	Math 14 expression char 27~28	0	65535	R/W
2481	MA14EX15	Math 14 expression char 29~30	0	65535	R/W
2482	MA14EX16	Math 14 expression char 31~32	0	65535	R/W
2483	MA14EX17	Math 14 expression char 33~34	0	65535	R/W
2484	MA4EX18	Math 14 expression char 35~36	0	65535	R/W
2485	MA15EX1	Math 15 expression char 1~2	0	65535	R/W
2486	MA15EX2	Math 15 expression char 3~4	0	65535	R/W
2487	MA15EX3	Math 15 expression char 5~6	0	65535	R/W
2488	MA15EX4	Math 15 expression char 7~8	0	65535	R/W
2489	MA15EX5	Math 15 expression char 9~10	0	65535	R/W
2490	MA15EX6	Math 15 expression char 11~12	0	65535	R/W
2491	MA15EX7	Math 15 expression char 13~14	0	65535	R/W
2492	MA15EX8	Math 15 expression char 15~16	0	65535	R/W
2493	MA15EX9	Math 15 expression char 17~18	0	65535	R/W
2494	MA15EX10	Math 15 expression char 19~20	0	65535	R/W

2495	MA15EX11	Math 15 expression char 21~22	0	65535	R/W
2496	MA15EX12	Math 15 expression char 23~24	0	65535	R/W
2497	MA15EX13	Math 15 expression char 25~26	0	65535	R/W
2498	MA15EX14	Math 15 expression char 27~28	0	65535	R/W
2499	MA15EX15	Math 15 expression char 29~30	0	65535	R/W
2500	MA15EX16	Math 15 expression char 31~32	0	65535	R/W
2501	MA15EX17	Math 15 expression char 33~34	0	65535	R/W
2502	MA15EX18	Math 15 expression char 35~36	0	65535	R/W
2503	MA16EX1	Math 16 expression char 1~2	0	65535	R/W
2504	MA16EX2	Math 16 expression char 3~4	0	65535	R/W
2505	MA16EX3	Math 16 expression char 5~6	0	65535	R/W
2506	MA16EX4	Math 16 expression char 7~8	0	65535	R/W
2507	MA16EX5	Math 16 expression char 9~10	0	65535	R/W
2508	MA16EX6	Math 16 expression char 11~12	0	65535	R/W
2509	MA16EX7	Math 16 expression char 13~14	0	65535	R/W
2510	MA16EX8	Math 16 expression char 15~16	0	65535	R/W
2511	MA16EX9	Math 16 expression char 17~18	0	65535	R/W
2512	MA16EX10	Math 16 expression char 19~20	0	65535	R/W
2513	MA16EX11	Math 16 expression char 21~22	0	65535	R/W
2514	MA16EX12	Math 16 expression char 23~24	0	65535	R/W
2515	MA16EX13	Math 16 expression char 25~26	0	65535	R/W
2516	MA16EX14	Math 16 expression char 27~28	0	65535	R/W
2517	MA16EX15	Math 16 expression char 29~30	0	65535	R/W
2518	MA16EX16	Math 16 expression char 31~32	0	65535	R/W
2519	MA16EX17	Math 16 expression char 33~34	0	65535	R/W
2520	MA16EX18	Math 16 expression char 35~36	0	65535	R/W
2521	MA17EX1	Math 17 expression char 1~2	0	65535	R/W
2522	MA17EX2	Math 17 expression char 3~4	0	65535	R/W
2523	MA17EX3	Math 17 expression char 5~6	0	65535	R/W
2524	MA17EX4	Math 17 expression char 7~8	0	65535	R/W
2525	MA17EX5	Math 17 expression char 9~10	0	65535	R/W
2526	MA17EX6	Math 17 expression char 11~12	0	65535	R/W
2527	MA17EX7	Math 17 expression char 13~14	0	65535	R/W
2528	MA17EX8	Math 17 expression char 15~16	0	65535	R/W
2529	MA17EX9	Math 17 expression char 17~18	0	65535	R/W
2530	MA17EX10	Math 17 expression char 19~20	0	65535	R/W
2531	MA17EX11	Math 17 expression char 21~22	0	65535	R/W
2532	MA17EX12	Math 17 expression char 23~24	0	65535	R/W
2533	MA17EX13	Math 17 expression char 25~26	0	65535	R/W
2534	MA17EX14	Math 17 expression char 27~28	0	65535	R/W
2535	MA17EX15	Math 17 expression char 29~30	0	65535	R/W
2536	MA17EX16	Math 17 expression char 31~32	0	65535	R/W
2537	MA17EX17	Math 17 expression char 33~34	0	65535	R/W
2538	MA17EX18	Math 17 expression char 35~36	0	65535	R/W
2539	MA18EX1	Math 18 expression char 1~2	0	65535	R/W
2540	MA18EX2	Math 18 expression char 3~4	0	65535	R/W
2541	MA18EX3	Math 18 expression char 5~6	0	65535	R/W
2542	MA18EX4	Math 18 expression char 7~8	0	65535	R/W
2543	MA18EX5	Math 18 expression char 9~10	0	65535	R/W

2544	MA18EX6	Math 18 expression char 11~12	0	65535	R/W
2545	MA18EX7	Math 18 expression char 13~14	0	65535	R/W
2546	MA18EX8	Math 18 expression char 15~16	0	65535	R/W
2547	MA18EX9	Math 18 expression char 17~18	0	65535	R/W
2548	MA18EX10	Math 18 expression char 19~20	0	65535	R/W
2549	MA18EX11	Math 18 expression char 21~22	0	65535	R/W
2550	MA18EX12	Math 18 expression char 23~24	0	65535	R/W
2551	MA18EX13	Math 18 expression char 25~26	0	65535	R/W
2552	MA18EX14	Math 18 expression char 27~28	0	65535	R/W
2553	MA18EX15	Math 18 expression char 29~30	0	65535	R/W
2554	MA18EX16	Math 18 expression char 31~32	0	65535	R/W
2555	MA18EX17	Math 18 expression char 33~34	0	65535	R/W
2556	MA18EX18	Math 18 expression char 35~36	0	65535	R/W
2557	CDMD1	IO card mode slot 1 channel 1~2	0	65535	R
2558	CDMD2	IO card mode slot 1 channel 3~4	0	65535	R
2559	CDMD3	IO card mode slot 1 channel 5~6	0	65535	R
2560	CDMD4	IO card mode slot 2 channel 1~2	0	65535	R
2561	CDMD5	IO card mode slot 2 channel 3~4	0	65535	R
2562	CDMD6	IO card mode slot 2 channel 5~6	0	65535	R
2563	CDMD7	IO card mode slot 3 channel 1~2	0	65535	R
2564	CDMD8	IO card mode slot 3 channel 3~4	0	65535	R
2565	CDMD9	IO card mode slot 3 channel 5~6	0	65535	R
2566	CDMD10	IO card mode slot 4 channel 1~2	0	65535	R
2567	CDMD11	IO card mode slot 4 channel 3~4	0	65535	R
2568	CDMD12	IO card mode slot 4 channel 5~6	0	65535	R
2569	CDMD13	IO card mode slot 5 channel 1~2	0	65535	R
2570	CDMD14	IO card mode slot 5 channel 3~4	0	65535	R
2571	CDMD15	IO card mode slot 5 channel 5~6	0	65535	R
2572	CDMD16	IO card mode slot 6 channel 1~2	0	65535	R
2573	CDMD17	IO card mode slot 6 channel 3~4	0	65535	R
2574	CDMD18	IO card mode slot 6 channel 5~6	0	65535	R

*1: The scale high/low value are define in the following table for AI(x)RL, AI(x)RH
AI(x)EV(x)SP, DP is reference to AI(x)DP.

Conditions	DP=0	DP=1	DP=2	DP=3	DP=4	DP=5
Scale low	-19999	-1999.9	-199.99	-19.999	-1.9999	-0.19999
Scale high	45536	4553.6	455.36	45.536	4.5536	0.45536

*2: The scale high/low value are define in the following table for MA(x)RL,
MX(x)RH, MX(x)EV(x)SP, DP is reference to MX(x)DP.

Conditions	DP=0	DP=1	DP=2	DP=3	DP=4	DP=5
Scale low	-32768	-3276.8	-327.68	-32.768	-3.2768	-0.32768
Scale high	32767	3276.7	327.67	32.767	3.2767	0.32767

*3: The scale high/low value are define in the following table for PG(x)PN(x)LO,
PG(x)PN(x)HI. If pen's channel (PG[x]PN[x]CH) is AI then use *1 table else
use *2 table.

*4: The scale high/low value are define in the following table for TZ(x)SH, TZ(x)SL,
DP is reference to TZ(x)DP.

Conditions	DP=0	DP=1	DP=2	DP=3
Scale low	0.0	0.0	0.0	0.0
Scale high	4294967295	429496729.5	42949672.95	4294967.295

Conditions	DP=4	DP=5
Scale low	0.0	0.0
Scale high	429496.7295	42949.67295

*5: The scale high/low value are define in the following table for TZ(x)EV(x)SP, DP
is reference to TZ(x)DP.

Conditions	DP=0	DP=1	DP=2	DP=3	DP=4	DP=5
Scale low	0.0	0.0	0.0	0.0	0.0	0.0
Scale high	65536	6553.6	655.36	65.536	6.5536	0.65536

3. Holding Register Parameter Descriptions

Notation	Description	Range	Default
VER	Version	0 ~65535	---
PLUS	Plus mode	0 ~65535	---
AI(x)DP MA(x)DP TZ(x)DP	AI, Math and Totalizer Decimal point	0~5	2
AI(x)FN	AI function no	0:Empty 2:Thermocouple J Type °C 3:Thermocouple J Type °F 4: Thermocouple K Type °C 5:Thermocouple K Type °F 6:Thermocouple T Type °C 7:Thermocouple T Type °F 8:Thermocouple E Type °C 9:Thermocouple E Type °F 10:Thermocouple B Type °C 11:Thermocouple B Type °F 12:Thermocouple R Type °C 13:Thermocouple R Type °F 14:Thermocouple S Type °C 15:Thermocouple S Type °F 16:Thermocouple N Type °C 17:Thermocouple N Type °F 18:Thermocouple L Type °C 19:Thermocouple L Type °F 20:Thermocouple TC1 Type °C 21:Thermocouple TC1 Type °F 24:RTD PT100 Type °C 25:RTD PT100 Type °F 26:RTD JPT100 Type °C 27:RTD JPT100 Type °F 28:RTD RTD1 Type °C 29:RTD RTD1 Type °F 32:0~60mV linear millivolt input	---

		34:0~1000mV linear millivolt input 36:0~10V linear voltage input 38:0~20mA linear current input 40:0~5V linear voltage input 42: 1~5V linear voltage input 44: 4~20mA linear current input 1, 22, 23, 30: :Reserve 31,33,35,37,39,41,43: Reserve	
MA(x)EN	Math enable	0:disable 1:enable	0
AI(x)RL	AI range low	Linear input :-32768~32767 else see sensor type range	linear:0
AI(x)RH	AI range High	Linear input :-32768~32767 else s see sensor type range	linear:100
MA(x)RL	Math range low	-32768~32767	-3276.8
MA(x)RH	Math range high	-32768~32767	3276.7
AI(x)UN1~3 MA(x)UN1~3 CT(x)UN1~3 TZ(x)UN1~3	AI, Math, Counter and Totalizer unit total char is 6 UN1:char 1~2 UN2:char 3~4 UN3:char 5~6	0~65535	0
AI(x)NA1~3 MA(x)NA1~3 INNA1~3 CT(x)NA1~3 DI(x)NA1~3 TZ(x)NA1~3	AI, Math, Instrument, Counter, DI and Totalizer name total char is 6 NA1:char 1~2 NA2:char 3~4 NA3:char 5~6	0~65535	AI(x) MA(x) VR18 CT(x) DI(x) TZ(x)
AI(x)ME MA(x)ME	AI and Math log method	0: Disable 1: Instant	1

		2:Average 3:Minimum 4:Maximum	
AI(x)SP MA(x)SP	AI and Math log speed	0:1 Sec 1:2 Sec 2:5 Sec 3:10 Sec 4:30 Sec, 5:60 Sec, 6:120 Sec	0
AI(x)OF MA(x)OF	AI and Math offset	0~65535	0.0
AI(x)GA MA(x)GA	AI and Math gain	1~65535	1.0
AI(x)EV(x)TP MA(x)EV(x)TP	AI and Math event type	0:No (None) 1:H (High) 2:L (Low) 3:HH (HighHigh) 4:LL (LowLow) 5:R (Rate of change - rise) 5:r (Rate of change - fall)	0
AI(x)EV(x)SP MA(x)EV(x)SP	AI and Math event set point	Low: AI(x)RL or MA(x)RL High: AI(x)RH or MA(x)RH	0
AI(x)EV(x)RT MA(x)EV(x)RT	AI and Math rate of change time	1~15 Sec	1
AI(x)EV(x)JB(x) MA(x)EV(x)JB(x) TM(x)JB(x) CT(x)EV(x)JB(x) DI(x)EV(x)JB(x) TZ(x)EV(x)JB(x)	AI, Math, Timer, Counter, DI and Totalizer AI event job	0:No Action 1:Log Alarm 2:Log Event 3:Sound Buzzer 4:Set DO On 5:Set DO Off 6:Enable Timer 7:Disable Timer, 8:Preset Totalzer 9:Reset Totalzer 10:Enable Totalzer 11:Disable Totalzer 12:Preset Counter	0

		13:Reset Counter 14:Inc Counter 15:Dec Counter 16:Log Report	
AI1EV1PM1 AI(x)EV(x)PM(x) MA(x)EV(x)PM(x) TM(x)PM(x) CT(x)EV(x)PM(x) DI(x)EV(x)PM(x) TZ(x)EV(x)PM(x)	AI, Math, Timer, Counter, DI and Totalizer AI event job parameter	0~11	0
PG(x)MD	Page mode	0:Disable 1:Mix 2:Trend 3:Bar 4:Digital	1
PG(x)DT	Page: trend direction	0: Horz 1: Vert	0
PG(x)BG	Page: trend background color	0:Black 1:White	0
PG(x)DI PG(x)DO	Page: DI and DO status bar	0: Disable 1: Enable 1~6 2: Enable 7~12	0
PG(x)TZ PG(x)CT	Page: totalizer and counter status bar	0: Disable 1: Enable 1~6 2: Enable 1~5 3: Enable 1~4 4: Enable 1~3 5: Enable 2~4 6: Enable 3~5 7: Enable 4~6	0
PG(x)PN(x)CH	Page: pen channel	0:Disable 1~18:AI 19~36:Math	0
PG(x)PN(x)CR	Page: pen color	0:Blue 1:Green 2:Cyan 3:Red	Pen No

		4:Magenta 5:Yellow 6:Gray 7:Deep Blue 8:Deep Green 9:Deep Cyan 10:Deep Red 11:Deep Magenta 12:Olive 13:Dark Gray	
PG(x)PN(x)WT	Page: pen width	1~3	1
PG(x)PN(x)LO	Page: pen rang low	Same as this pen source range	pen source low
PG(x)PN(x)HI	Page: pen rang high	Same as this pen source range	pen source high
TM(x)TP	Timer type	0:Countdown 1:Repeat Countdown 2:Daily 3:Weekly 4:Monthly	0
TM(x)AC	Timer action	0:Disable 1:Enable	0
TM(x)DY	Timer day Parameter	0~31	0
TM(x)HR	Timer hour parameter	0~23	0
TM(x)MN	Timer minute parameter	0~59	0
TM(x)SD	Timer second parameter	0~59	1
INPW1~4	Instrument total char is 6 INPW 1:char 1~2 INPW 2:char 3~4 INPW 3:char 5~6 INPW 4:char 7~8	0~65535	0

INSM	Instrument storage media	0: CF Card	0
INKS	Instrument keypad sound	0:Disable 1:Minimum 2:Medium 3:Maximum	1
INDS	Instrument date style	0:mm/dd/yy 1:dd/mm/yy	0
INLA	Instrument language	0: English	0
INEL	Instrument event limit	0:256 1:512 2:1024	0
INSS	Instrument screen saver	0:Disable 1:1 Min 2:10 Min 3:20 Min 4:30 Min 5:40 Min 6:50 Min 7:60 Min	0
INIR	Instrument IR sensor enable	0:Off 1:On	0
INPT	Instrument communication protocol	0:RS232/RS485/RS/422 1:Ethernet	1
INAD	Instrument address	0:Disable 1~32	1
INBR	Instrument baud rate	0:9600 1:14400 2:19200 3:28800 4:38400 5:57600 6:115200	4
INDF	Instrument data format	0:Automation 1: User Define	0
INIP1~2	Instrument Ethernet IP address total	0~65535	192.168 0.111

	digital is 4 INIP1:digital 1~2 INIP1:digital 3~4		
INSM1~2	Instrument Ethernet subnet mask total digital is 4 INIP1:digital 1~2 INIP1:digital 3~4	0~65535	255.255 255.0
CT(x)PS	Counter preset value	0~65535	0
CT(x)EV(x)TP DI(x)EV(x)TP TZ(x)EV(x)TP	Counter, DI and Totalizer event type	0:None 1:Hi 2:Low	0
CT(x)EV(x)SP	Counter event set point	0~65535	100
TZ(x)SR	Totalizer source	0~17:AI1~AI18 18~35:Math1~Math18	0
TZ(x)AC	Totalizer action	0:Disable 1:Enable	0
TZ(x)PI	Totalizer period	0:Sec 1:Min 2:Hour	0
TZ(x)PSH TZ(x)PSL	Totalizer preset hi word and low word must be merge	0 to 4,294,967,295	0
TZ1EVSP	Totalizer event set point	0~65535	100.0
MA(x)EX1~18	Math expression total char is 36 EX1:char 1~2 EX18:char 35~36	0~65535	0
CDMD(x)	IO card channel mode (x)/6 is slot no (x)%6 is channel no	bit0~1:Total channel, bit2~3:Card version bit4~7:Card Type (8:AI, C:DI, E:DO)	---

Input sensor type range:

Type	Range
J	-120°C~1000°C -184°F ~1832°F
K	-200°C~1370°C -328°F ~2498°F
T	-250°C~400°C -418°F ~752°F
E	-100°C~900°C -148°F ~1652°F
B	0°C~1800°C 32°F ~3272°F
R	0°C~1767.8°C 32°F ~3214°F
S	0°C~1767.8°C 32°F ~3214°F
N	-250°C~1300°C -418°F ~2372°F
L	-200°C ~900°C -328°F ~1652°F
TC1	-250°C ~1820°C -418°F ~3308°F
PT100	-210°C~700°C -346°F ~1292°F
JPT100	-200°C~600°C -328°F ~1112°F
RTD1	-250°C ~1820°C -418°F ~3308°F

4.Modbus communication

4-1.Data Conversion:

The word data are regarded as unsigned (positive) data in the Modbus message. However,the actual value of the parameter may be negative value with decimal point.The high/low scale values for each parameter are used for the purpose of such conversion.

Let M=Value of Modbus message

A=Actual value of the parameter

SL=Scale low value of the parameter

SH=Scale high value of the parameter

The conversion formulas are as follows:

$$M=65535*(A-SL)/(SH-SL)$$

$$A=M*(SH-SL)/65535+SL$$

4-2.Read Holding Registers

Description

Reads the binary contents of holding registers in the slave.

Broadcast is not supported.

Query

The query message specifies the starting register and quantity of registers to be read. Registers are addressed starting at zero: registers 1–16 are addressed as 0–15. Here is an example of a request to read registers 2108–2110 from slave device17:

QUERY

Field Name	Example (Hex)
Slave Address	11
Function	03
Starting Address Hi	08
Starting Address Lo	3C
No. of Points Hi	00
No. of Points Lo	03
Error Check (CRC)	--

Response

The register data in the response message are packed as two bytes per register, with the binary contents right justified within each byte. For each register, the first byte contains the high order bits and the second contains the low order bits. The response is returned when the data is completely assembled. Here is an example of a response to the query on the opposite page:

RESPONSE	
	Example
Field Name	(Hex)
Slave Address	11
Function	03
Byte Count	06
Data Hi (Register 2108)	02
Data Lo (Register 2108)	2B
Data Hi (Register 2109)	00
Data Lo (Register 2109)	00
Data Hi (Register 2110)	00
Data Lo (Register 2110)	64
Error Check (CRC)	--

The contents of register 2108 are shown as the two byte values of 02 2B hex, or 555 decimal. The contents of registers 2109–2110 are 00 00 and 00 64 hex, or 0 and 100 decimal.

4-3. Read Input Registers

Description

Reads the binary contents of input registers in the slave.

Broadcast is not supported.

Query

The query message specifies the starting register and quantity of registers to be read. Registers are addressed starting at zero: registers 1–16 are addressed as 0–15. Here is an example of a request to read register 2009 from slave device 17:

QUERY	
	Example
Field Name	(Hex)
Slave Address	11

Function	04
Starting Address Hi	07
Starting Address Lo	D9
No. of Points Hi	00
No. of Points Lo	01
Error Check (CRC)	--

Response

The register data in the response message are packed as two bytes per register, with the binary contents right justified within each byte. For each register, the first byte contains the high order bits and the second contains the low order bits.

The response is returned when the data is completely assembled. Here is an example of a response to the query on the opposite page:

RESPONSE

Field Name	Example (Hex)
Slave Address	11
Function	04
Byte Count	02
Data Hi (Register 2009)	00
Data Lo (Register 2009)	0A
Error Check (CRC)	--

The contents of register 2009 are shown as the two byte values of 00 0A hex, or 10 decimal.

4-4.Preset(Write) Multiple Registers

Description

Presets values into a sequence of holding registers.

Note The function will override the controller's memory protect state. The preset values will remain valid in the registers until the controller's logic next solves the register contents. The register values will remain if they are not programmed in the controller's logic.

Query

The query message specifies the register references to be preset. Registers are addressed starting at zero: register 1 is addressed as 0. The requested preset values are specified in the query data field. Data is packed as two bytes per register. Here is an example of a request to preset two registers starting at 2002 to 00 0A and 01 02 hex,

in slave device 17:

QUERY

	Example
Field Name	(Hex)
Slave Address	11
Function	10
Starting Address Hi	07
Starting Address Lo	D2
No. of Registers Hi	00
No. of Registers Lo	02
Byte Count	04
Data Hi	00
Data Lo	0A
Data Hi	01
Data Lo	02
Error Check (LRC or CRC)	--

Response

The normal response returns the slave address, function code, starting address, and quantity of registers preset. Here is an example of a response to the query shown above.

RESPONSE

	Example
Field Name	(Hex)
Slave Address	11
Function	10
Starting Address Hi	00
Starting Address Lo	01
No. of Registers Hi	00
No. of Registers Lo	02
Error Check (CRC)	--

4-5.Placing the CRC into the Message

When the 16-bit CRC (two 8-bit bytes) is transmitted in the message, the low-order byte will be transmitted first, followed by the high-order byte.

For example, if the CRC value is 1241 hex (0001 0010 0100 0001):

CRC Byte Sequence:

Addr	Func	Data	Data	Data	Data	CRC	CRC
	Count		Hi	Lo			
			41	12			

Example

An example of a C language function performing CRC generation is shown on the following pages. All of the possible CRC values are preloaded into two arrays, which are simply indexed as the function increments through the message buffer. One array contains all of the 256 possible CRC values for the high byte of the 16-bit CRC field, and the other array contains all of the values for the low byte. Indexing the CRC in this way provides faster execution than would be achieved by calculating a new CRC value with each new character from the message buffer.

CRC Generation Function

```
unsigned short CRC16(puchMsg, usDataLen)
```

```

unsigned char *puchMsg ;           /* message to calculate CRC upon
    */
unsigned short usDataLen ;        /* quantity of bytes in message */

{
    unsigned char uchCRCHi = 0xFF ; /* high byte of CRC initialized
    */
    unsigned char uchCRCLo = 0xFF ; /* low byte of CRC initialized
    */
    unsigned uIndex ;              /* will index into CRC lookup table */
    while (usDataLen--)           /* pass through message buffer
    */
    {
        uIndex = uchCRCHi ^ *puchMsgg++ ; /* calculate the CRC
    */
        uchCRCHi = uchCRCLo ^ auchCRCHi[uIndex] ;
        uchCRCLo = auchCRCLo[uIndex] ;
    }
}

```

```

    }

    return (uchCRCHi << 8 | uchCRCLo) ;
}

```

High-Order Byte Table

/* Table of CRC values for high-order byte */

```

static unsigned char auchCRCHi[] = {
0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81,
0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0,
0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01,
0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41,
0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81,
0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0,
0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01,
0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41,
0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81,
0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1,
0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01,
0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40,
0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80,
0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0,
0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x01,
0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41,
0x00, 0xC1, 0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81,
0x40, 0x01, 0xC0, 0x80, 0x41, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1,
0x81, 0x40, 0x01, 0xC0, 0x80, 0x41, 0x00, 0xC1, 0x81, 0x40,
0x40
};

```

Low-Order Byte Table

/* Table of CRC values for low-order byte */

```

static char auchCRCLo[] = {
0x00, 0xC0, 0xC1, 0x01, 0xC3, 0x03, 0x02, 0xC2, 0xC6, 0x06, 0x07, 0xC7, 0x05, 0xC5, 0xC4,
0x04, 0xCC, 0x0C, 0x0D, 0xCD, 0x0F, 0xCF, 0xCE, 0x0E, 0x0A, 0xCA, 0xCB, 0x0B, 0xC9, 0x09,
0x08, 0xC8, 0xD8, 0x18, 0x19, 0xD9, 0x1B, 0xDB, 0xDA, 0x1A, 0x1E, 0xDE, 0xDF, 0x1F, 0xDD,
0x1D, 0x1C, 0xDC, 0x14, 0xD4, 0xD5, 0x15, 0xD7, 0x17, 0x16, 0xD6, 0xD2, 0x12, 0x13, 0xD3,
0x11, 0xD1, 0xD0, 0x10, 0xF0, 0x30, 0x31, 0xF1, 0x33, 0xF3, 0xF2, 0x32, 0x36, 0xF6, 0xF7,
0x37, 0xF5, 0x35, 0x34, 0xF4, 0x3C, 0xFC, 0xFD, 0x3D, 0xFF, 0x3F, 0x3E, 0xFE, 0xFA, 0x3A,
0x3B, 0xFB, 0x39, 0xF9, 0xF8, 0x38, 0x28, 0xE8, 0xE9, 0x29, 0xEB, 0x2B, 0x2A, 0xEA, 0xEE,

```

```

0x2E, 0x2F, 0xEF, 0x2D, 0xED, 0xEC, 0x2C, 0xE4, 0x24, 0x25, 0xE5, 0x27, 0xE7, 0xE6, 0x26,
0x22, 0xE2, 0xE3, 0x23, 0xE1, 0x21, 0x20, 0xE0, 0xA0, 0x60, 0x61, 0xA1, 0x63, 0xA3, 0xA2,
0x62, 0x66, 0xA6, 0xA7, 0x67, 0xA5, 0x65, 0x64, 0xA4, 0x6C, 0xAC, 0xAD, 0x6D, 0xAF, 0x6F,
0x6E, 0xAE, 0xAA, 0x6A, 0x6B, 0xAB, 0x69, 0xA9, 0xA8, 0x68, 0x78, 0xB8, 0xB9, 0x79, 0xBB,
0x7B, 0x7A, 0xBA, 0xBE, 0x7E, 0x7F, 0xBF, 0x7D, 0xBD, 0xBC, 0x7C, 0xB4, 0x74, 0x75, 0xB5,
0x77, 0xB7, 0xB6, 0x76, 0x72, 0xB2, 0xB3, 0x73, 0xB1, 0x71, 0x70, 0xB0, 0x50, 0x90, 0x91,
0x51, 0x93, 0x53, 0x52, 0x92, 0x96, 0x56, 0x57, 0x97, 0x55, 0x95, 0x94, 0x54, 0x9C, 0x5C,
0x5D, 0x9D, 0x5F, 0x9F, 0x9E, 0x5E, 0x5A, 0x9A, 0x9B, 0x5B, 0x99, 0x59, 0x58, 0x98, 0x88,
0x48, 0x49, 0x89, 0x4B, 0x8B, 0x8A, 0x4A, 0x4E, 0x8E, 0x8F, 0x4F, 0x8D, 0x4D, 0x4C, 0x8C,
0x44, 0x84, 0x85, 0x45, 0x87, 0x47, 0x46, 0x86, 0x82, 0x42, 0x43, 0x83, 0x41, 0x81, 0x80,
0x40
};

```

4-6.Sample Code

A request to read holding register 00 from slave device 01:

```

char buffer[10];
int SL=ScaleLo of registers 00,
    SH=ScaleHi of registers 00;
ReadData(1,3,0,1,buffer);
int M=MAKEWORD(buffer[4],buffer[3]);
/* The content of register 00 is as follow: */
ConverseData(M,SL,SH);

```

A request to read Input register 00 from slave device 01:

```

char buffer[10];
int SL=ScaleLo of registers 00,
    SH=ScaleHi of registers 00;
ReadData(1,4,0,1,buffer);
int M=MAKEWORD(buffer[4],buffer[3]);
/* The content of register 00 is as follow: */
ConverseData(M,SL,SH);

```

A request to preset two registers starting at 0 to 1 and 2, in slave device 01:

```

char buf[4];
int SL0=ScaleLo of registers 00,
    SH0=ScaleHi of registers 00,
    SL1=ScaleLo of registers 01,
    SH1=ScaleHi of registers 01,
    M0=65535*(1-SL0)/(SH0-SL0),
    M1=65535*(2-SL1)/(SH1-SL1);
buf[0]=HIBYTE[M0];

```

```

buf[1]=LoBYTE[M0];
buf[2]=HiBYTE[M1];
buf[3]=LoBYTE[M1];
WriteData(1,16,0,1,buffer);

```

How to get the real-time value of Pen1 in recorder via Modbus.

Step1:Read the parameters Decimal,ScaleLo and ScaleHi of Pen1.

The sample codes are as follows:

```

int Pen1Dp,//Decimal point of Pen1
    Pen1SL,//ScaleLo of Pen1
    Pen1SH,//ScaleHi of Pen1
    Pen1Val;//real-time value of Pen1

float A;//Actual value of the parameter
int M;//Value of Modbus message
    SL;//Scale low value of the parameter
    SH;//Scale high value of the parameter
unsigned char MbsBuf[20];
//Decimal
if(ReadData(1,3,2,1,MbsBuf))
{
    /*      Parse Data      */
    M=MAKEWORD(MbsBuf[4],MbsBuf[3]);
    /*      Converse Data      */
    Pen1Dp=ConverseData(M,SL,SH);
}
//ScaleLo
Pen1SL=SL/(10^Dp)
//ScaleHi
Pen1SH=SH/(10^Dp)

```

Step2:Read the real-time value of Pen1.(Continued)

The sample codes are as follows:

```

//Value of Input Register
if(ReadData(1,4,0,1,MbsBuf))
{
    /*      Parse Data      */
    M=MAKEWORD(MbsBuf[4],MbsBuf[3]);

```



```

        /*      Converse Data      */
        Pen1 Val=ConverseData(M,Pen1SL,Pen1SH);
    }

//Read function
bool ReadData(int Addr,int Func,int StReg,int RegNum,unsigned char *MbsBuf)
{
    unsigned char msg[20];
    unsigned short Crc;
    msg[0]=Addr;
    msg[1]=Func;
    msg[2]=HIBYTE[StReg];
    msg[3]=LOBYTE[StReg];
    msg[4]=HIBYTE[RegNum];
    msg[5]=LOBYTE[RegNum];
    Crc=CRC16(msg,6);
    msg[6]=HIBYTE[Crc];
    msg[7]=LoBYTE[Crc];
    int snd=8,//Byte number of buffer msg
        rcv=5+RegNum*2;
    /*      Send snd bytes content of msg to COMM port      */
    /*      Receive rcv bytes of response from COMM port to MbsBuf      */
    if (successfully)
        return true;
    else
        return false;
}

//Write function
bool WriteData(int Addr,int Func,int StReg,int RegNum,unsigned char *MbsBuf)
{
    unsigned char msg[300];
    unsigned short Crc;
    msg[0]=Addr;
    msg[1]=Func;
    msg[2]=HIBYTE[StReg];
    msg[3]=LOBYTE[StReg];
    msg[4]=HIBYTE[RegNum];

```

```

msg[5]=LOBYTE[RegNum];
msg[6]=RegNum*2;
memcpy(&(msg[7]),MbsBuf,msg[6]);
int count=6+msg[6];
Crc=CRC16(msg,count);
msg[count]=HIBYTE[Crc];
msg[count+1]=LoBYTE[Crc];
count=count+2;
int snd=count, //Byte number of buffer msg
    rcv=8;
/*    Send snd bytes content of msg to COMM port    */
/*    Receive rcv bytes of response from COMM port to MbsBuf    */
if (successfully)
    return true;
else
    return false;
}

```

```

float ConverseData(int M,int SL,int SH)
{
    float A;//Actual value of the parameter
    /*    Converse Data    */
    A=M*(SH-SL)/65535+SL;

    return A;
}

```

4-7. Modbus/TCP

This section describes the general form of encapsulation of a MODBUS request or response when carried on the MODBUS/TCP network. It is important to note that the structure of the request and response body, from the function code to the end of the data portion, have EXACTLY the same layout and meaning as MODBUS serial port-RTU (binary) encoding.

The only differences in these other cases are the form of any ‘framing’ sequence, error check pattern, and address interpretation.

All requests are sent via TCP on registered port 502.

The MODBUS 'slave address' field is replaced by a single byte 'Unit Identifier' which may be used to communicate via devices such as bridges and gateways which use a single IP address to support multiple independent end units.

The request and response are prefixed by six bytes as follows

- byte 0: transaction identifier - copied by server - usually 0
- byte 1: transaction identifier - copied by server - usually 0
- byte 2: protocol identifier = 0
- byte 3: protocol identifier = 0
- byte 4: length field (upper byte) = 0 (since all messages are smaller than 256)
- byte 5: length field (lower byte) = number of bytes following

- byte 6: unit identifier (previously 'slave address')
- byte 7: MODBUS function code
- byte 8 on: data as needed

So an example transaction 'read 1 register at offset 4 from UI 9' returning a value of 5 would be

request: 00 00 00 00 00 06 09 03 00 04 00 01

response: 00 00 00 00 00 05 09 03 02 00 05

Designers familiar with MODBUS should note that the 'CRC-16' check fields are NOT needed in MODBUS/TCP. The TCP/IP and link layer (eg. Ethernet) checksum mechanisms instead are used to verify accurate delivery of the packet.

For examples, please see section 6 'Sample Code'. The only differences in these examples are the prefixed six bytes and removed CRC.