

ULYS MCM

MULTI-CHANNEL METER



**The solution for centralizing
measurement on multiple
electrical feeders**

Compact : 18 three-phase meters in 1

Quick implementation

Compatible with a large number of sensors



Measure up



ULYS MCM helps you to reduce your equipment and installation costs for your instrumentation projects

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Our 5 advantages

1 18 meters in 1 !

Basing its operation on a single voltage measurement for all the feeders, the Ulys MCM benefits from a compact design.

- In three-phase use
 - ▶ up to 18 meters
- In single-phase use
 - ▶ up to 54 meters

2 Quick, reliable implementation

The whole current measurement connection chain on the Ulys MCM has been designed to facilitate its implementation.

The current sensors are connected using RJ12 quick connection technology which can be hooked up with a click using a cable prepared before installation, thus limiting the risk of cabling errors. The technology of the current sensors eliminates the electrical risk: there is no need to install a short-circuit device to secure the installation.

3 Compatible with a large number of sensors

The Ulys MCM is compatible with a whole range of sensors :

- Our Miniflex flexible sensors using Rogowski technology offer an ideal solution for connection to high currents and/or multiple conductors (particularly the general feeders of installations) because they are very easy to install
 - Current transformer clips sufficiently compact for integration in confined spaces and for low current feeders
- Flexible the Ulys MCM can be used with three-phase feeders incorporating both types of sensors , i.e. MiniFlex and TC CLIP.

4 Detailed, comprehensive information

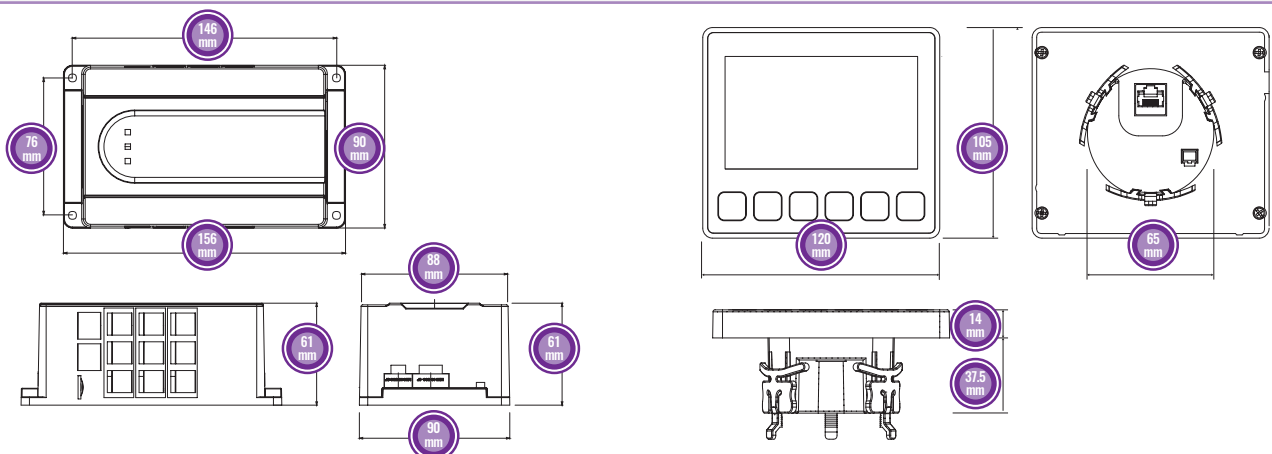
The Ulys MCM measures all the energy values (kWh, kVAh, etc.) and electrical quantities (V, U, I, F, PF, unbalance, etc.) for each electrical feeder equipped with instrumentation. A probe is supplied to measure temperature. The product may be equipped with a remote screen, connected to the Ulys MCM via a simple cable, to display all the information on the front panel of the cabinet.

5 Universal communication

The Ulys MCM can be connected to any Ethernet or RS485 network using the same model, so that it can be queried remotely in real time by a PLC.

The Ulys MCM's large capacity will enable it to evolve to handle new requirements.

Dimensions



All the technical information you need to get to know the ULYS MCM better

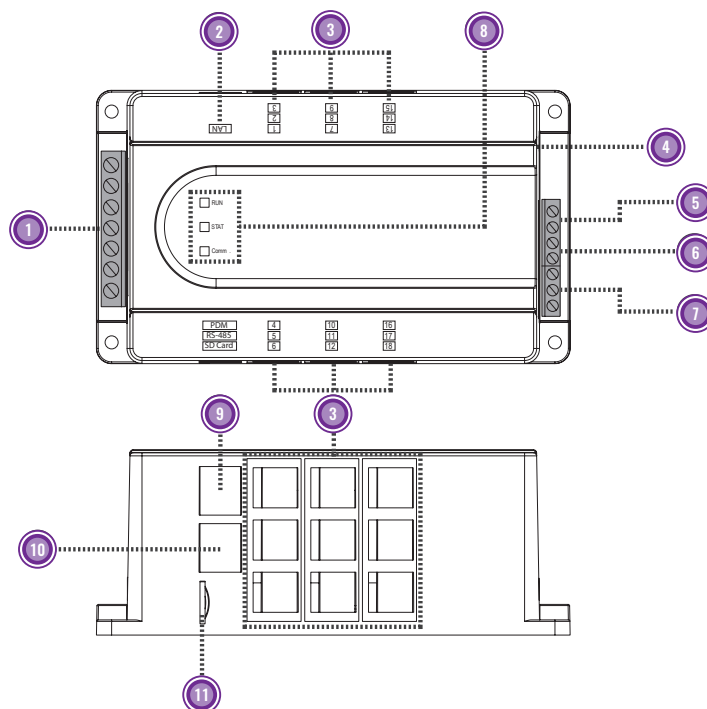
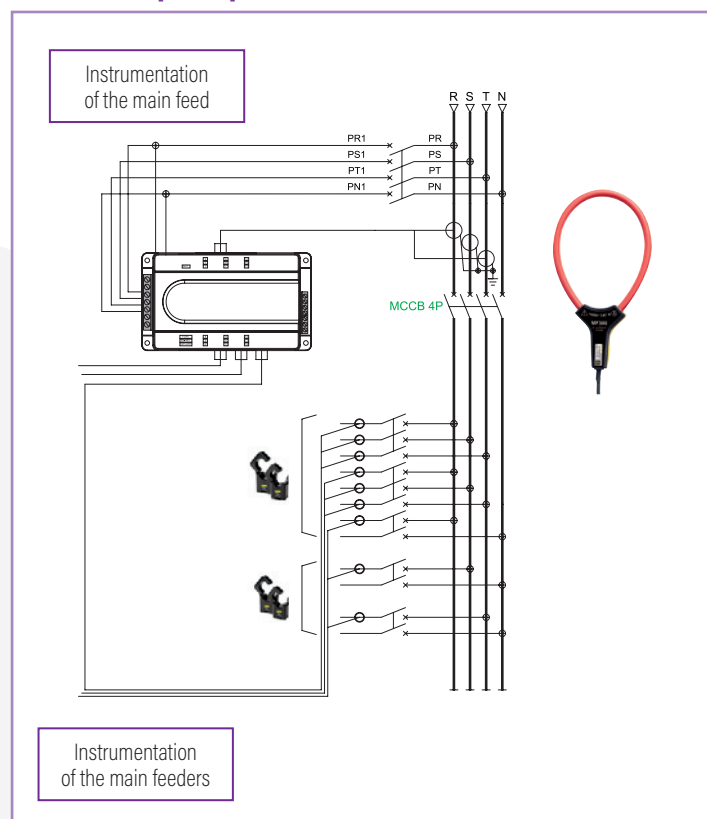
General description

Description of the ULYS MCM

N°	Designation	Description
1	Input voltage*	Input voltage terminal for the measurements
2	Ethernet port	Communication with master (Modbus slave) Protocol: Modbus TCP/IP Speed: 10/100 Mbit/s
3	Port TC 1 ~ 18	RJ12 connectors for connection to the current sensor
4	Temp. sensor	NTC temperature sensor NTC temperature measurement at the level of the port.
5	On-off output*	On-off output terminal Rated specifications: 250 V ~ /5 A, 30 Vp-p/5A resistive
6	On-off input*	On-off input terminal Rated specifications: 220 V ~ locking input voltage required
7	Auxiliary power supply*	Auxiliary power supply of the ULYS MCM
8	Status LED	
9	PDM port	RS232 port to connect the PC or ULYS MCM D remote screen
10	RS485 port	RS485 port to connect the PC or an external PLC
11	SD card housing	Housing of the micro-SD card

*The cross-section of the connection cable must be from 0.5 mm² à 2.5 mm² (minimum: AWG 26, maximum: AWG 12). The tightening torque of the wiring in the field is 0.4 Nm.

Connection principle



Designation		Specifications
Electrical system		1P2W, 3P3W, 3P4W
Rated input specifications	Voltage (Umin - Umax)	43-690 V ~ between phases
	Voltage (Vmin - Vmax)	25-400 V ~ between phases and neutral
	Measurement category	Cat III
	Frequency	45-65 Hz
	Current	0-333 mV (max 0.5 V p-p) Impedance: 20 kΩ
	On-off input	1 point, 230 V ~, external power supply
	NTC temperature	25° C, 10 kΩ, (B(25/85) = 3 970° k)
Auxiliary power supply	Voltage	100-240 V ~
	Frequency	50-60 Hz
	Max. voltage (L-N)	Short-term: 1,440 V ~ - Long-term: 490 V ~
	Consumption	0.09-0.09 A
	Overvoltage category	Cat II
Communication		Modbus RS485 Modbus TCP RS232
Output contact		1 NO (normally open) SPST (single pole single throw)
Pollution degree		2
Altitude		≤ 2 000 m
Operating temperature		- 10° C to + 55° C
Storage temperature		-25° C to + 70° C
Max. humidity		5-80% RH without condensation
Ingress protection as per IEC 60529		IP20 IP40: ULYS MCM D front panel
For indoor use only		

To answer your questions (and choose your references)

How many three-phase feeders do you need ?

Up to 9 electrical feeders:

P01331062	ULYS MCM 9
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Between 10 and 18 electrical feeders:

P01331064	ULYS MCM 18
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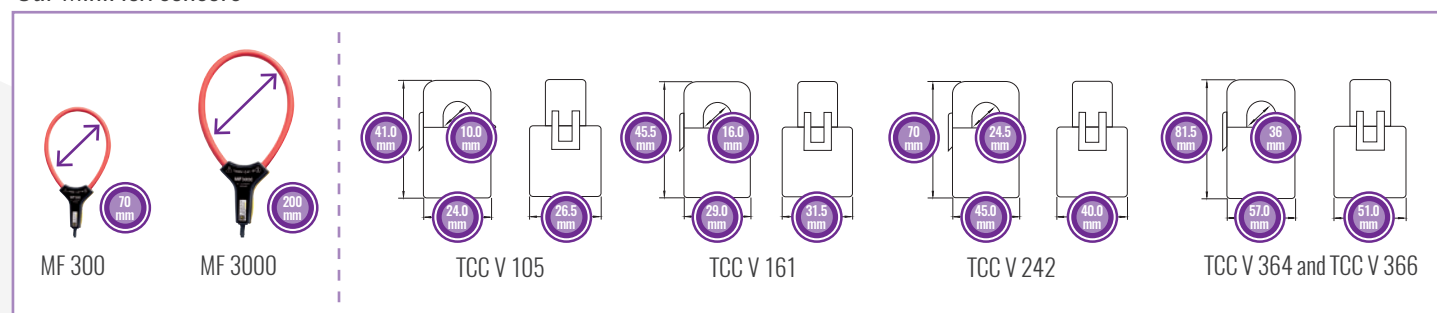
Which sensors do you want ?

(may differ for each feeder, supplied in kits of 3)

		Ratio	Diameter
P01379616	PACK 3 TCC V 105	5A / 333mV	10mm
P01379618	PACK 3 TCC V 161	100A / 333mV	16mm
P01379620	PACK 3 TCC V 242	250A / 333mV	24mm
P01379622	PACK 3 TCC V 364	400A / 333mV	36mm
P01379624	PACK 3 TCC V 366	600A / 333mV	36mm
P01379631	PACK 3 MF300	600A (1A / 39,1μV)	70mm
P01379633	PACK 3 MF3000	3000A (1A / 39,1μV)	200mm

Our MiniFlex sensors

Our current transformers



What is the distance between your Ulys MCM and your sensors ?

(may differ for each feeder)

P01379641	RJ12M-RJ12M M	≤ 3 metres
P01379642	RJ12M-RJ12M L	≤ 9 metres



Do you want to equip your Ulys MCM with a screen ?

P01331065	ULYS MCM D	Screen
P01379640	RJ45M-RJ45M M	Connection cable*

*Cable essential to connect the screen



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