

Product Information Sheet



UX36 Hi Pot Tester

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Top model in Hi Pot Testers

The UH36SX is a universal Hi Pot Tester that fulfils various test standards. It has been closely developed in co-operation with users and is easy to use thanks to its intuitive usage. The UH36SX is versatile and can be used on both production lines and assembly lines as well as in workshops and laboratories. The guaranteed future software and hardware platforms in connection with the intelligent interface concept ensure easy adaptation and high flexibility.

Test voltage:	Standard 5 kV AC und AC / DC 100 - 5 000 V AC, potential free Variations > 5 kV or > 500 VA
Test current:	0,1 - 100 mA
Transformer power:	From 500 VA
Short circuit current:	> 200 mA
Adjustable testing time:	From 1 - 99 s / 1 - 99 min. and infinite
Display:	LED-display, target and true values are displayed permanently.
Fault indication:	Acoustic, optical and via the port
Set of test parameters:	Freely programmable
Ramp function:	Freely programmable
Testing/Burning:	Switchable
Voltage regulation:	Standard
Keyboard lock:	Standard
Special features:	Conductor breakage and contact monitoring, automatic start
Dimensions (W x H x D):	585 x 212 x 325 mm
Ports:	Digital IO for PLC, RS232, CAN, safety circuit and warning lights (EN 50191)

Features

- Monitoring the test leads for conductor breakage and monitoring the contact with the test object
 For highest process safety, so that in the event of a product liability case it can be proved that the test object has been tested.
- Freely programmable set of test parameters For safe and fast alteration of the test parameters.
- Ramp function
 For particularly easy-on-product testing.

Automatic start
 When the test pistol HTPO6C (Patent) is triggered then there is a start
 signal:
 The high voltage is only activated when the electrical contact has been
 made with the test object.
 This protects the test object from surge peaks and ensures the correct test time.

- Voltage regulation
 For constant test voltage irrespective of any mains voltage fluctuations.
- Safety circuit with two controlled relays

The best safety techniques as required by the EN 50191.

- Measurement of current and voltage directly on the high voltage side For accurate measurement.
- Burn out function To recognise faulty positions.
- Keyboard lock
 To prevent inadvertent adjustment of the test parameters.
- **Potential free high voltage** For maximum safety.
- Fault indication: acoustic, optical and via the port For reliable detection of defective products.
- Acoustic signal at the commencement and completion of testing For safe operation and fatigue-free working.
- **Display showing the type of fault** For fast narrowing down of the fault.
- **Remote control mode** For fully automatic remote control of the test equipment via a PC or PLC.
- Set up

Individual setting of the start options, language, performance of the digital entries and exits, ramp options, options for the contact and conductor breakage monitoring, and much more.

• Updates available via the port For customers individual requirements via long distance maintenance.

Ports and connections

Control port

Digital interface to a PLC terminal, a foot switch or a result or operating panel with signals such as Start, Stop, Pass / Fail and Test in Progress.

RS232 / PC port

To connect with a PC. All settings are possible using this connection – the desired test values are automatically set by the equipment.

Further, the port allows a permanent data collection, as well as control of the status information. On the PC side, there is a data management package – DataView or a driver for your own PC applications available.

RS232 / ASCII-print out

For direct connection to a terminal programme or protocol printer. In contrast to the PC remote control, the results are permanently transferred in ASCII-format. The print out language is adjustable.

CAN-Interface

To extend the testing system for additional features and further extensions. As many ETL-appliances and CAN components can be connected to each other as required and remote controlled via the port.

Safety circuit

For implementation of the safety circuit as required by the EN 50191. There are 3 possible switching_possibilities in order to comply with standards when testing using test pistols, test enclosures or within a transfer line.

Signal light connection

To connect a signal light combination, each with a red and a green high visibility beacon as required by the EN 50191.

Contact with the test object

High voltage exits (front)

Contact is through 2 potential free high voltage exits via suitable built-in sockets HVS06C on the front of the equipment.

These exits are 2-pole with socket for plug HVP06C (A \emptyset 6 mm and I \emptyset 2 mm). Together with the 2-pole high voltage test pistol HTP06C a definite start signal is generated and conductor breakage monitoring is guaranteed. In an automated environment, for example a test station, an additional contact monitor can be reached. In order to do this the test points must each have 2 contacts.

A rear HV-exit is optionally available

Product description

Top model in Hi Pot Testers

The UH36SX is the clear leader in its class and is the most compact of its close competitors with a standing area of approx. 585 x 325 mm and a weight of only 20 - 30 kg. Robust industrial quality, modern industrial design and a flexible concept allows the universal use in industrial applications, the development laboratory or in technical service centres.

Intelligently thought-out operating concept - easy handling guaranteed

The large LED-displays are unfailingly readable. The test parameters and results for test voltage, current and test times are displayed simultaneously. The operator has permanently got the current testing status in full view. The test parameters are set to individually assigned buttons and can be individually adjusted. The UH36SX has 9 freely programmable test programmes at its disposal to enable different tests and fast or frequently changing testing programmes to be carried out with the minimum of fuss. Through simple 'button pressing' the programmes are set or re-set and programmed – you can't work faster.

Features such as testing or burning and the freely programmable ramp can be connected as easily as everything else. The programmable ramp sends the test voltage up to the target test value in the pre-selected time.

The basic settings such as language, starting conditions, performance of the digital entries and exits, ramp settings, individual keyboard locks, options for the contact – and cable fault monitoring and much more for your particular use with test pistols, test enclosures or PLC can be set using a special menu.

Valuable extras - upto 6 kV AC - already standard with the UH36SX

Known problems such as surge peaks during contact, residual voltage, keeping the pre-set test time as well as problems with the contact to the test object are all in the past with the UH36SX. You ensure that the test object does not get damaged during the test and the accuracy of your tests can be proved in a product liability case.

Examples of usage

- Potential free testing with test pistols
- Testing with fixed connections and two-hand control
- Testing with a safety enclosure (protection against unavoidable contact)
- As a semi- or fully automatic system component within a production line

Technical specifications

UX36: High voltage	e test AC to 5 000 V, AC / D	C available on request		
Voltage Test	Voltage range:	100 - 6 000 V AC, Standard		
U U	5 5	0,1 - 6 kV AC		
		Higher voltage from page 7		
	Resolution:	10 V		
	Accuracy:	1%		
	Output frequency:	50 Hz / 60 Hz depending on the mains		
		supply		
	Waveform:	Sinus, depending on the mains supply		
	Output stability:	Output voltage regulated to +/- 10 V, PI-regulator		
	True value display:	LED-display 13 mm, red		
	Target value display:	LED-display 10 mm, red		
Resistance Test	Output current:	0,1 - 100 mA		
	Measurement range:	0 - 120 mA		
	Adjustment range:	0,1 - 100 mA		
	Resolution:	0,1 mA		
	Accuracy:	1 %		
	Short circuit current:	> 200 mA / > approx. 1 100 V		
	True value display:	LED-display 13 mm, red		
	Target value display:	LED-display 10 mm, red		
Test time	Adjustment range:	0 - 99 s / 0 - 99 min, infinite		
	Resolution:	0,1 s - 1 s / 0,1 min - 1 min		
	True value display:	LED-display 13 mm, red		
	Target value display:	LED-display 10 mm, red		
General output data	Transformer power:	> 500 VA		
Special features	Ramp up function:	The voltage is gradually driven up to the required test voltage, the test time then starts, freely programmable.		
	Contact monitoring: Upto 6 kV AC	Monitoring of the contact to the test object via contact device (4-pole).		
	Conductor breakage monitoring: Upto 6 kV AC	Monitoring of the test cables for conductor breakage.		
	Burn out function:	Burning out of the faulty positions.		
	Minimal current monitoring:	Monitoring of a pre-set minimal current during the test, in conjunction with ETL DataView.		
	Automatic start: Start and stop signal using the test pistol:	The ETL test pistol HTP06C recognises (patent) the correct contact to the test product via a special HW-extension.		
	Zero voltage switch:	The UH36SX can only be switched on or off in the zero voltage run of the test voltage.		

Specifications of th	e UX36:		
General	Mains connection:	230 V, 50 Hz / 60 Hz	
	Power input:	Max. 8 A	
	Display:	LED-display 13 mm x 10 mm target and true values are permanently displayed.	
	Setting of the test parameters:	Manually or fully-automatic via the port	
	Programming:	Set of 9 parameters that are freely programmable	
	Warning signals:	Acoustic, optical and via the port	
	Dimensions (W x H x D):	585 x 212 x 325 mm	
	Weight:	Approx. 20 - 30 kg	
	Casing:	Plastic, RAL 7035	
	Temperature:	5 - 45 °C	
	Accessories:	Instruction manual, power cable, safety circuit plug	
	Calibration:	Includes manufacturers certificate of calibration	
Ports	Control / digital IO:	Start, Stop, Pass / Fail and Test in Progress	
	Remote control port RS232:	To connect to a PC and for direct connection to a terminal programme or a protocol printer	
	CAN:	To extend the testing system for additional features and for further extensions	
Connections	High voltage exits:	Contact to the test object is via 2 potential free high voltage connectors, that are both 2-pole with plug and socket HVP06C (A Ø 6 mm and I Ø 2 mm)	
	Safety circuit:	To implement the appropriate safety circuit as detailed by EN 50191	
	Warning light connection:	To connect a warning light combination as detailed by EN 50191	
Starting the test	Start and stop signal via the test pistol:	Through special start automatic and 4-pole technique (Upto 6 kV AC)	
	Start button on equipment: Start and stop signal via	Test can be started by pressing the button on the front of the equipment Test can be started via PLC or	
	port: Start button via external switch:	PC-interface Test can be started via a digital IO e.g., via a foot button	
Set up	Keyboard lock:	Individually configured	
	Output option:	Individual configuration of the result output	
	Buzzer option:	Individual configuration of the acoustic signals	
	LED-display:	Brightness of the display elements	
	Start options:	Individual setting of the start mode	
	Special features:	Setting of the start automatic, the conductor breakage and contact monitoring	
	Language and mode choice for external printer:	English, German, Italian, Spanish, Dutch, Swedish / Mode: Print when OK, not OK or always	
	Ramp options:	Ramp time and type of ramp drop	
	Test duration:	Test duration calibration	

Variations



Similar illustration



Similar illustration

Similar illustration

Similar illustration

Hi Pot Tester UX36E-3C10 Test voltage: Measurement range: Transformer power: Short circuit current:

Hi Pot Tester UX36E-3/6C10 Test voltage:

Measurement range:

Transformer power: Short circuit current:

Hi Pot Tester UX36-3/6P6 Test voltage:

Measurement range:

Transformer power: Short circuit current:

Hi Pot Tester UX36E-3/6P12 Test voltage:

Measurement range:

Transformer power: Short circuit current:

Hi Pot Tester UX36-3,5C2

Test voltage: Measurement range: Transformer power: Short circuit current:

Hi Pot Tester UX36-5/10C3 Test voltage:

Measurement range:

Transformer power: Short circuit current: Art.-No.: 202381

0,1 - 3 kV AC 0,5 - 1 000 mA 3 000 VA > 1 000 mA

Art.-No.: 202596

0,1 - 3 kV AC 0,5 - 6 kV AC 0,5 - 1 000 mA 0,5 - 500 mA 3 000 VA > 200 mA

Art.-No.: 202794

0,1 - 3 kV AC 0,5 - 6 kV AC 0,5 - 200 mA 0,5 - 500 mA 600 VA > 200 mA

Art.-No.: 202793

0,1 - 3 kV AC 0,5 - 6 kV AC 0,5 - 400 mA 0,5 - 200 mA 1 200 VA > 400 mA

Art.-No.: 202377

0,1 - 3kV AC 0,5 - 200 mA 700 VA > 200 mA

Art.-No.: 202595

0,1- 5 kV AC 0,5 - 10 kV AC 0,5 - 300 mA 0,5 - 150 mA 1 500 VA > 200 mA

Hi Pot Tester UX36-5C2 Test voltage: Measurement range: Transformer power: Short circuit current:	0,1 - 5 kV AC 0,5 - 200 mA 1 000 VA > 200 mA	ArtNo.: 202194
Hi Pot Tester UX36-5C3 Test voltage: Measurement range: Transformer power: Short circuit current:	0,1 - 5 kV AC 0,5 - 300 mA 1 500 VA > 300 mA	ArtNo.: 201926
Hi Pot Tester UX36-6C2 Test voltage: Measurement range: Transformer power: Short circuit current:	0,5 - 6 kV AC 0,5 - 200 mA 1 200 VA > 200 mA	ArtNo.: 202351
Hi Pot Tester UX36-8C1 Test voltage: Measurement range: Transformer power: Short circuit current:	0,5 - 8 kV AC 0,5 - 100 mA 800 VA > 50 mA	ArtNo.: 202511
Hi Pot Tester UX36-8C1,6 Test voltage: Measurement range: Transformer power: Short circuit current:	0,5 - 8 kV AC 0,5 - 160 mA 1 280 VA > 200 mA	ArtNo.: 202513
Hi Pot Tester UX36-10C2 Test voltage: Measurement range: Transformer power: Short circuit current:	0,5 - 10 kV AC 0,5 - 200 mA 2 000 VA > 50 mA	ArtNo.: 202387
Hi Pot Tester UX36-12P6 Test voltage: Measurement range: Transformer power: Short circuit current:	0,5 - 12 kV AC 0,5 - 50 mA 600 VA > 50 mA	ArtNo.: 201852
 Hi Pot Tester UX36-12C1 Extended Version for 100 % rate and continuous output:	-	ArtNo.: 202187



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UX36-12C1Extended Version for 100 % ED or for systems with high tac
rate and continuous output:Test voltage:0,5 - 12 kV ACMeasurement range:0,5 - 50 mATransformer power:600 VAShort circuit current:> 200 mA



Hi Pot Tester UX36-12C1E

Test voltage: Measurement range: Transformer power: Short circuit current:

Hi Pot Tester

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Hi Pot Tester

UX36-20P10 Test voltage:

Hi Pot Tester

UX36E-2C10

Test voltage:

UX36-20kV Test voltage:

UX36-15kV Test voltage: Measurement range: Transformer power: Short circuit current:

Measurement range:

Transformer power: Short circuit current:

Measurement range:

Transformer power: Short circuit current:

Measurement range:

Transformer power: Short circuit current:

44.1



Similar illustration



Hi Pot Tester UX36-30kV Test voltage: Measurement range: Transformer power: Short circuit current:

Hi Pot Tester UX36-40kV

Test voltage: Measurement range: Transformer power: Short circuit current:



Hi Pot Tester UX36-40kV Test voltage: Measurement range: Transformer power: Short circuit current:

0,5 - 12 kV AC 0,5 - 100 mA 1 200 VA > 100 mA

Art.-No.: 202219

0,5 - 15 kV AC 0,5 - 33 mA 500 VA > 50 mA

Art.-No.: 202118

0,5 - 20 kV AC 0,5 - 25 mA 500 VA > 100 mA

Art.-No.: 202577

0,5 - 20 kV AC 0,5 - 50 mA 1 000 VA > 50 mA

Art.-No.: 202382

0,5 - 20 kV AC 0,5 - 1 000 mA 2 000 VA > 200 mA

Art.-No.: 202576

0,5 - 30 kV AC 0,5 - 16 mA 500 VA > 50 mA

Art.-No.: 202597

0,5 - 40 kV AC 0,5 - 25 mA 1 000 VA > 30 mA

Art.-No.: 202598

0,5 - 40 kV AC 0,5 - 50 mA 2 000 VA > 70 mA Art.-No.: 202320

Trans.	Hi Pot Tester UX36-60kV		ArtNo.: 202599
	Test voltage:	0,5 - 60 kV AC	
the second secon	Measurement range:	0,5 - 5 mA	
	Transformer power: Short circuit current:	300 VA > 10 mA	
	Short circuit current.	> 10 IIIA	
	Two-part test installation upto 75kV AC		ArtNo.: 202383
	Test voltage:	0,5 - 75 kV AC	
	5	0,5 - 100 mA	
	Transformer power:	7 500 VA	
	Short circuit current:	> 100 mA	
	Two-part test installation upto 75kV AC	I.	ArtNo.: 202600
	Test voltage:	0,5 - 75 kV AC	
	Measurement range:	0,5 - 200 mA	
	Transformer power: Short circuit current:	15 000 VA	
	Short circuit current:	> 200 mA	
	Hi Pot Tester UX36-0608P12		ArtNo.: 202468
	Test voltage 1:	0,1 - 3 kV AC	
		0,1 - 4,2 kV DC	
	Test voltage 2:	0,5 - 6 kV AC	
		0,5 - 8,5 kV DC	
ALL T ALL	Measurement range 1:	0,5 - 400 mA AC	
		0,5 - 300 mA DC	
	Measurement range 2:	0,5 - 200 mA AC	
	-	0,5 - 150 mA DC	
	Transformer power: Short circuit current:	1 200 VA > 400 mA / 200	m۸
	Short circuit current.	> 400 MA / 200	
	Hi Pot Tester UX36E-0608C4		ArtNo.: 202602
Abbildung ähnlich	Test voltage 1:	0,1 - 3 kV AC 0,1 - 4,2 kV DC	
	Test voltage 2:	0,1 - 6 kV AC 0,1 - 8,4 kV DC	
	Measurement range 1:	0,5 - 400 mA AC 0,5 - 280 mA DC	
	Measurement range 2:	0,5 - 200 mA AC 0,5 - 140 mA DC	
	Transformer power:	1 500 VA	
	Short circuit current:	> 200 mA / 400	mA
	Hi Pot Tester UX36-1015P5		ArtNo.: 202475

UX36-1015P5 Test voltage:

Measurement range:

Transformer power: Short circuit current: 0,5 - 10 kV AC 0,5 - 15 kV DC 0,5 - 50 mA 0,5 - 33 mA 500 VA > 200 mA

Art.-No.: 202441

Hi Pot Tester UX36-1520P5 Test voltage:

Measurement range:

Transformer power: Short circuit current:

Hi Pot Tester UX36-2028CL Test voltage: 0,5 - 15 kV AC 0,5 - 20 kV DC 0,5 - 30 mA AC 0,5 - 25 mA DC 500 VA > 30 mA

0,5 - 20 kV AC

0,5 - 28 kV DC

0,5 - 3 mA AC 0,5 - 10 mA DC

500 VA

> 30 mA

Art.-No.: 202451



Measurement range:

Transformer power: Short circuit current: Current is restricted as detailed

Further types available on request