

TEMP 50

Portable Working Standard Meter

TEMP50 portable working standard meter is intended for on-site comparative measurements and testing of inductive and static, electricity meters in:

- direct,
- semi-direct or
- indirect connections.

The meter measures active and reactive electric energy in:

- single phase and
- three-phase
 - 2- or 3-systems meters in
 - 3- or 4-wire connection.



	Single-phase, 2-wire
	Three-phase, 3- or 4-wire
	Quality of energy
	Measured quantities Active power
	Measured quantities Reactive power
	Measured quantities Apparent power
	Measured quantities V
	Measured quantities A
	Measuring of energy Four quadrant
	Measuring of energy Bidirectional
	Communication option

- Single and three-phase energy and demand measurement.
- Active, reactive and apparent energy.
- Active, reactive and apparent demand per phases and total.
- The comparative measurement enable calculation of error for meter under test (MUT), irrespective of the tested meters version.
- Phase voltages and currents measurement.
- Voltage or current THD measurement.
- Power factor and phase angle single or three phase measurement.
- Demand can be calculated for all energies in predefined periods, range 1 -180 minutes, 1 minute resolution.

FUNCTIONAL AND TECHNICAL DATA

Meter is approved according to IEC 62053-22, IEC 62053-23, ISO 9001 and designed according to even higher internal Iskraemeco standards, based on 60 years of meter manufacturing experience and 50 millions installed meters around the globe.

Functions

Actual and average parameters display. Accuracy test. Freeze function to display the instantaneous values during meter testing. Capable to display the test progress. Tests storage.

Display

Graphical display enables graphical and numerical representation of measured results. Display of error in percentage at 2 decimals.

Communication

The meter is provided with RS232 serial communication for measurement transfer to personal computer.

Power supply

Meter is supplied from test voltages or external supply.

Software

Windows based software have been designed specifically for meter specialists. It offers intuitive graphical interface for data transfer and representation.

Safety

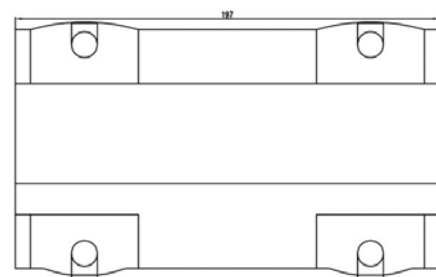
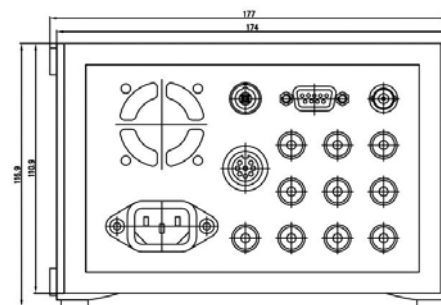
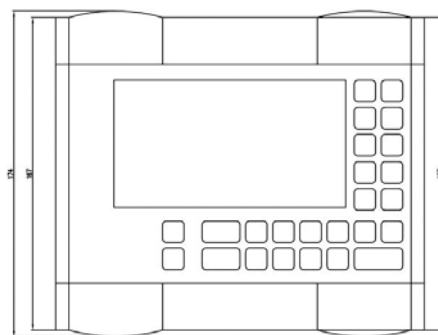
According by EN 61010-1 standard, housing IP 40, EN 60529.

Accessories

- 3 x clamp-on CT,
- photo-scanning head FG-LK for counting rotor revolutions at ferraris electricity meters and pulses of LED at electronic meters,
- cable set,
- Windows based software,
- bag / suitcase.

Accuracy class	Direct	Via clamp-on CT
Current	0.2%	0.5%
Voltage	0.2%	
cosines	0.5%	
Energy/demand		
Active	0.2%	0.5%
Reactive	0.5%	1.0%
Apparent	0.5%	1.0%
Measuring		
Current direct	50 mA – 10 A	
Current via clamp-on CT	500 mA – 100 A	
Voltage	57.7 – 280 V ±10%	
Frequency	45 – 65 Hz	
Temperature range	-15°C ... +40°C	
Housing	IP40, mass < 5kg	
Power supply consumption	< 15 VA	
Housing	197 x 174 x 117 mm IP40, mass < 5 kg	

CASING DIMENSIONS



Owing to periodical improvements of our products the supplied products can differ in some details from the data stated in the prospectus material.

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