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# RIHXE12R

RIHXE12R Single Phase
Two Wire Cost-effective Meter



RIHXE12R is a single phase meter features compact and cost-efficient design. It focuses on the necessary and offers an excellent price-performance ratio.

### Highlights

- > Instantaneous KWhr value measurement
- Current reverse indicator (LCD)

#### Main Functionalities

- Unidirectional Measurement
- Bi-directional Measurement configurable (optional)
- kWh reverse measured separately
- Instantaneous KWhr value measurement
- LCD backlit to increase readability in low light conditions (optional)
- Optical communication (IEC62056-21)
- SO pulse output
- Terminal cover open detection and record (optional)
- > Short terminal cover
- Extended terminal cover (optional)

### Specifications

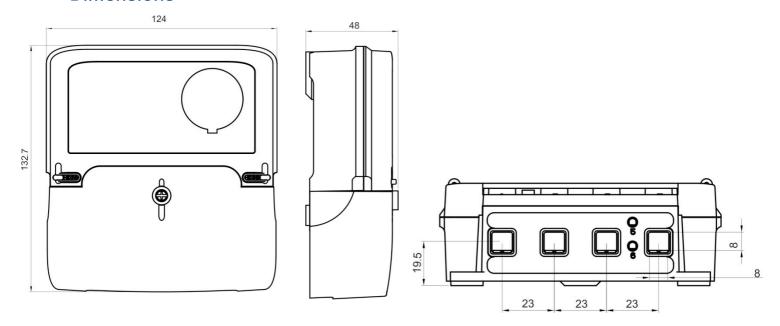
Description	Value
Accuracy	Class 1 or Class 2, Class A or Class B
Voltage	
Reference voltage	110-127V,220-240V
Operating voltage range	80%-120%Un
Current	
Basic current	5A,10A
Maximum current	40A, 60A, 80A, 100A
Starting current	≤0.4%lb
Frequency	50Hz or 60Hz
Temperature	
Operation range	-25℃ to +70℃
Limit range for storage and transport	-40℃ to +70℃

Humidity	Up to 95%
Power Consumption	
Power consumption in voltage circuit (active)	≤2 W
Power consumption in voltage circuit (apparent)	≤10 VA
Power consumption in current circuit	≤1 VA
Insulation Strength	
AC voltage test	4kV during 1min
Impulse voltage test	1.2/50μs mains connections 6kV
EMC	
Electrostatic discharges(Contact discharges)	8kV
Electrostatic discharges(Air discharges)	15kV
Surge immunity test	4kV
Fast transient burst test	4kV
Electromagnetic RF fields (80MHz to 2000MHz)	10V/m(with current), 30V/m(without current)
Connection Terminals	9mm x 9mm
Housing	
Protection degree	IP51
Meter cover	Opaque PC+ glass fiber with a transparent window
Meter base	Opaque PC+ glass fiber
Terminal cover	Opaque PC + glass fiber
Display	
Digit size	10.0mm x 4.8mm
Number of digits	6
Communication Interface	
Optical communication	IEC62056-21
Weight	
Net weight	Approx. 0.36kg(extended terminal cover)
	Approx.0.35kg(short terminal cover)
Package	Approx.0.06kg
Dimension	
Extended terminal cover	132.7mm x124mm x48mm
Short terminal cover	99.5mm x124mm x48mm

## ■ Standard

IEC62052-11	Electricity metering equipment (a.c.) General requirements, tests and test conditions – Part 11: Metering
16002002-11	equipment
IEC62053-21	Electricity metering equipment (a.c.) Particular requirements –Part 21:Static meters for active
IEC62053-21	energy(classes 1 and 2)
IEC62056-21	Electricity metering – Data exchange for meter reading, tariff and load control – Part 21:Direct local data
	exchange
EN50470-1	Electricity metering equipment (a.c.) —Part 1: General requirements, tests and test conditions — Metering
	equipment(class indexes A, B and C)

#### Dimensions



## **■** Connection Diagram

