SINGLE PHASE ELECTRICITY METER

HXE 110

Overview

The static electricity meter HXE10 is a smart single phase direct connected meter. Enable utilities to monitor all essential factors of power grid such as voltage, current, power factor and power quality items. The meter can measure active and reactive import and export energy of single-tariff and multi-tariff periods. The electricity meter meets the requirements of standard EN 50470-3 class B for active energy and standard IEC 62053-23 class 2 for reactive energy. Hot plug module design enables utiities to deploy it in different environments with different

EU Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer Hexing Electrical Co., Ltd.

Serial Number: 23822609

Product model: Active Electrical Energy Meter, type: HXE110
Energy meter: HXE110 (Active CI.B, 230V,0.5-10(60)A, 50Hz,1000imp. /kWh)
We declare under our own responsibility that the above product satisfies all the technical regulations applicable to the product within the scope of Council Directives:

Directive 2014/32/EU, Directive 2011/65/EU, Directive (EU)2015/863,
The above product is in conformity with the following standards or other normative documents:
BS EN 50470-1 (2006): Electricity metering equipment (a.c.)
Part 1: General requirements-tests and test conditions-Metering equipment (class indexes A, B and C)
BS EN 50470-3(2006): Electricity metering equipment (a.c.)
Part 3: Particular requirements-Static meters for active energy (class indexes A, B and C)

The product is also compliant with Module B and Module D according to Measuring Instruments Direcive 2014/32/EU.

The Module B certificate number is as below:
Notified Body: KEMA B.V.
Notified body number: 2290
Certificate number: 1240-21

The Module D certificate number is as below:
Notified Body: SGS Fimko OY
Certificate number: 0598/MIN/D/21/018
Notified body number: 0598

Specification

Accuracy	Active Reactive	Class B (ENS0470-3) Class 2 (IEC62053-23)
Voltage	Reference voltage Operating voltage range	1P2W: 230V 80% -115%Un
Current	Basic current Maximum current Starting Current	10A 60A ≤0.4%Ib
Frequency		50Hz
Temperature	Operation range Storage and transport	2o'C~55'C 2o'C~55'C
Humidity		Up to 95% non-condensing
Power Consumption	Power consumption in voltage circuit Power consumption in current circuit	≤2W, ≤10VA ≤2VA
Insulation Strength	AC voltage test Impulse voltage test	4kV during 1min 1.2/5Oμs mains connections 6kV
EMC	Electrostatic Discharge (Contact/Air) Surge immunity test	8kV/15kV 4kV
Connection Terminals		9.5mm x 9.0mm
Housing	Protection degree	IP54
Communication Interface	Optical Communication RS485	HDLC HLDC
Weight		Approx. 1.08kg
Dimension(HxWxD)	With long terminal cover	203m x 132mm x 73mm
Standard	IEC62052-11,IEC62053-21,IEC62053-23,IEC62056-21,EN50470-1,EN50470-3	

Installation

1. Select the proper position according to the meter dimensions, and indicate fixing points of the meter on the installation panel.

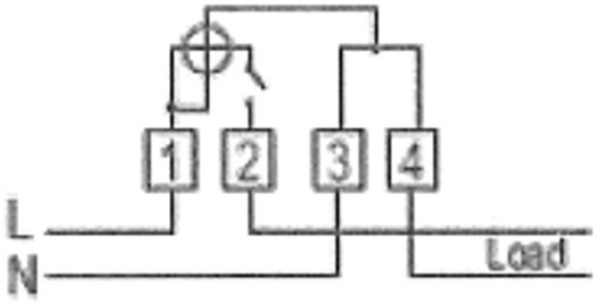
2. Open the meter terminal cover, and adjust the height of hanger.

3. Using the vertical installation method, the meter is hanging on the hanger screw, and fixed on the bottom by two screws. Ensure the meter is installed firmly, without shaking.

4. Cut the cable to the required length and use the wire stripper to uncover the cable. The recommended bare metal length after stripping is at least 20mm for this series of products.

5. When using a small sectional cable, such as 4mm squared, the cable must be placed in the medium to ensure that the screw is well tightened without deviation.

6. The cables should be connected correctly according to the wiring diagram and the terminals should be tightened to avoid any damage caused by bad connection.



7. Close the terminal cover, and sealed it.

Hexing Electrical Co, Ltd

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