

Installation Guide – Single Phase direct connected kWh Din rail meter

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Warning: Engineering work should only be performed by qualified, trained personnel abiding by local safety regulations. Ensure power is disconnected from the unit before commencing work. Follow all local regulations and site rules to ensure a safe working environment.

The unit must be installed in a protective housing so that the terminals are inaccessible after fitting

Voltage connections must be fused.

Do not power or connect the instrument if any part of it is damaged

WIRING GUIDE

The instrument should be connected as shown in the diagram

TECHNICAL SPECIFICATIONS

- Precision: class 2 in accordance with CEI-EN 61036 standard
- Operating voltage: **230 V** (-15% / +10%)
- Frequency: 45/65 Hz
- Basic current: 15 A
- Maximum current: 22.5 A ;Overcurrent 30 I_{max} for 0.5 cycles)
- Minimum start-up current: <50 mA
- Maximum power consumption: voltage circuit < 4 VA (0.5W)
current circuits < 2 VA
- Meter constant: 1 imp/0,1 kWh
- Optically isolated pulse output: impulse duration < 75 ms; voltage 3-30 V DC; current < 20 mA
- Operating temp. -10 °C / +45 °C
- Storage temp. -25 °C / +70 °C
- Relative humidity: < 95% non condensing
- Protection level: IP20

INDICATORS

1. **Green warning light:** lights up to indicate power on
2. **Red warning light:** flashes to indicate that the instrument is metering energy (1 flash=1 kWh)

CONFORMITY TO EU DIRECTIVES:

73/23/EEC modified by **93/68/EEC** (Low Voltage)

89/336/EEC modified by **92/31/EEC** and **93/68/EEC** (EMC)

is declared with reference to the following harmonised standard:

1. **Safety:** CEI-EN 61010-1 (1994)
2. **Electromagnetic compatibility:** CEI-EN 61036 (1997)
3. **Measurement accuracy:** CEI-EN 61036 (1997)

