

Quick Installation Guide

CompactIQ



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1. Installation

1.1 Mechanical size

Dimensions PP (mm) 153 mm × 72 mm × 74.5 mm

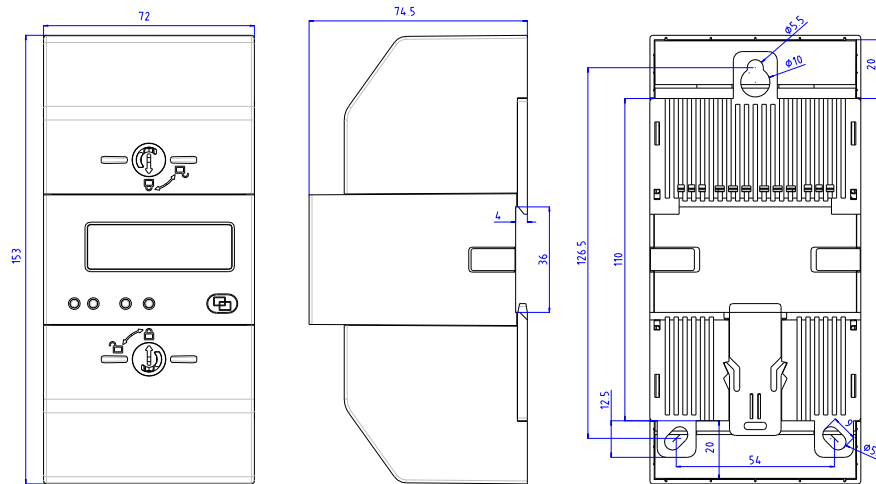


Figure 1: Dimensions of meter

1.2 Requirements on wires

The terminal block allows inserting wires with varying cross-sectional area ranging 4 to 25 mm².

The type of wires can be solid cores, flexible cores or stranded wires. All types with or without the use of insulated or non insulated cable end sleeves.

The terminal block also allows inserting wires with cross-sectional area of 35 mm², which with solid cores or stranded type wires.

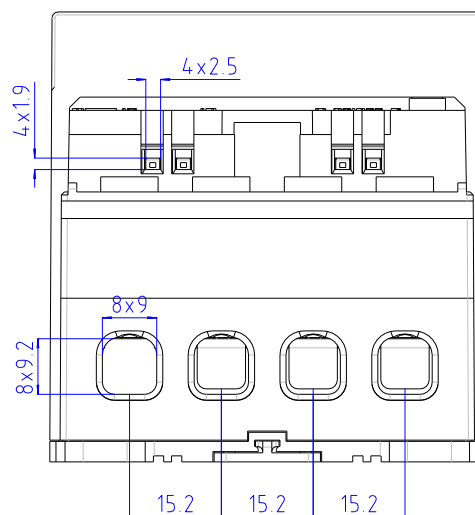


Figure 2: Wires requirements on meter

The connection hole can be inserted into the maximum depth of 24 mm, the recommend wire strip length is 18~22 mm.

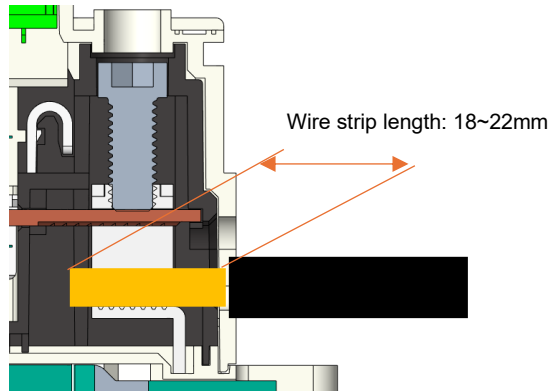


Figure 3: Wire strip length

The recommended torque for tightening the terminal strip screws is 3.5~4 Nm with a Hex/Inbus 5 screwdriver.

The recommended voltage and environment temperature should follow the specifications of the meter.

1.3 Installation procedure

Meter installation must be carried out in accordance with national legislation and the DSO's regulations.

The meter must be installed in a dry and ventilated environment. The installation board must be fixed on a steady, fire-resistant and non-vibrant wall. The method as to how the meter should be installed is as shown below. (Please refer to the wire diagram.)

Cut off the power supply to where the meter will be installed, this is the most important thing!!!

Step 1: Inspect meter before install

Before installation, please make sure that there is no damage, broken or any other defect to the meter. Do NOT install the meter if any defect is found.

Step 2: Fixing

The meter is 3 points mounting type, it can be fixed by upper 1 hook and bottom 2 fixing point.

The hook must be slide out for installation.

To fix meter, first hang the meter by hook then fasten three fixing screws.

Step 3: Connect power line

Connect all necessary wires according to wiring diagram which is printed on terminal cover.

Step 4: Install the terminal cover, power on inspection

After correct connection, install the terminal cover, seal the screw, and turn on the power.

Step 5: Display inspection

After power on, first page of LCD will display firmware version. Then the meter will display the list of auto-scrolling mode 1.

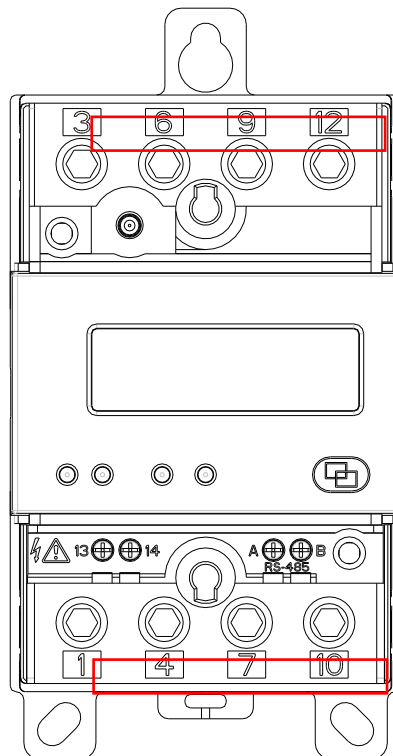


Figure 4: Terminal block of PP meters

1, 4, 7 Phase Supply, Phase order L1, L2, L3

3, 6, 9 Phase Load, Phase order L1, L2, L3

10 Neutral Supply

12 Neutral Load

The meter can operate normally even when the phase sequence is reversed.

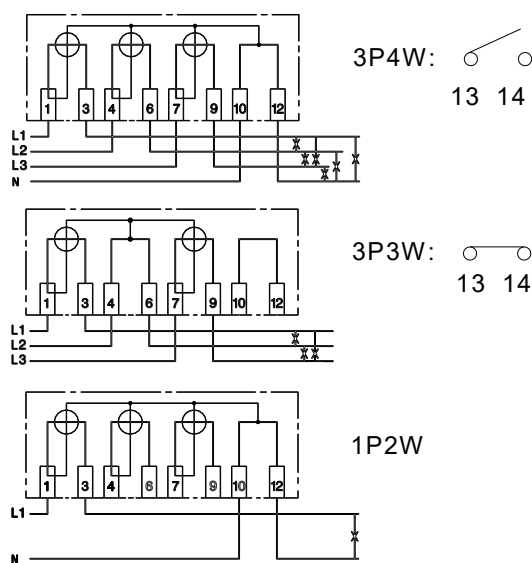


Figure 5: Wire diagram

1.5 LTE-M module

The LTE-M module is integrated in meter, it can't be replaced unless change the new meter.

2. Protection

2.1 Protective class

This equipment protective class is II and is fully protected by double insulation or reinforced insulation.



: Equipment of protective class II

2.2 External protection devices

The electrical installations must comply with the national regulations in place.

Although the supply side external protection device is not required, it is still recommended.

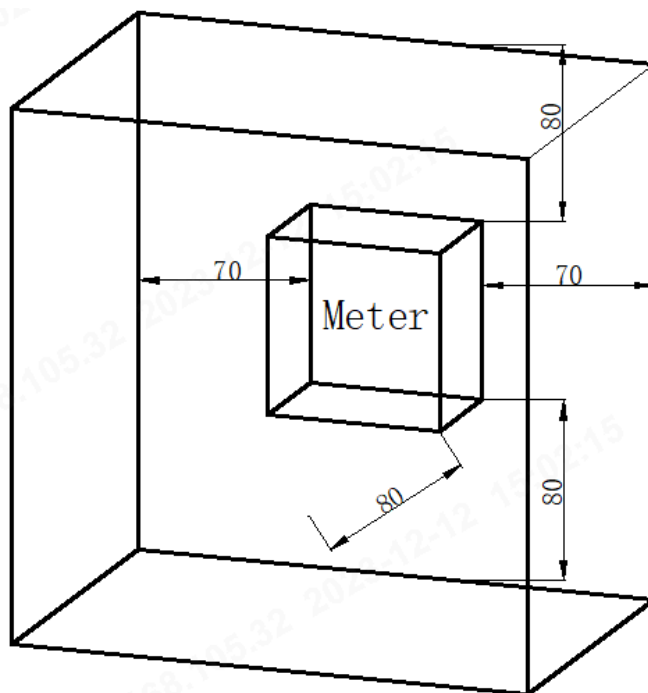
Generally, the installer should consult local regulations and the installation manual for the necessary protection requirements before installation.

The relevant information can be found in this manual.

Statement: The installer is responsible for coordinating the rating and the characteristics of the supply side overcurrent protection devices with the maximum current rating and, in the case of direct connected meters, with the UC rating of the metering equipment.

3. Commissioning

When the meter is installed in a cabinet, or other similar locations, the recommended minimum inner size of cabinet shown in the figure below:



Unit: mm

Figure 6: Minimum cabinet clearances for meter installation

Statement: where danger or damage is expected to arise due to an interruption of supply, suitable provisions shall be made in the installation or installed equipment.

The external protection devices need to be installed correctly to protect accidental electric shock. If the terminal cover is not screwed tight, there is a danger of contact with the connection terminals. Contact with live components is dangerous to life.

The functional check requires voltage to be applied, and load applied to all phases. If export is possible, determine first the energy direction present.

If no network voltage is present, commissioning and functional check must be performed later.



4. Maintenance and cleaning

4.1 Maintenance

The meter installation, remove and maintenance should be performed comply with appropriate procedures and arrangements, and cut off the power supply before starting.

If it is necessary to operate with power, please do not touch the exposure metal parts directly, it may be live parts under normal or abnormal conditions, it may cause electric shock.

If it cannot be solved, please contact the manufacture.

4.2 Cleaning

If the meter outside surface needs to be cleaned, please cut-off the power supply first, and wait the surface temperature cools to ambient temperature, then use a wet towel with clear water to wipe the meter surface. Be careful not to use volatile or corrosive solvents and no drops. Otherwise, it may cause meter damage or electric shock.

5. Storage and mounting

5.1 Storage

The meters should be transport and storage within the specified temperature range and follow the instructions on the packing.

The transport should be carried in the original packaging whenever possible and protected from exposure to rain, dusts, sunshine insects and corrosive atmospheres.

Impacts and drops should be avoided during transport.

5.2 Mounting

During handling lifting and moving the meters, or removing the packaging, the appropriate tools and equipment should be used to avoid damaging the meters or operators.

The meters are indoor use only and should be installed at a dry and well-ventilated place, and avoided exposure to sunshine, rain, dusts and corrosive atmospheres.

The environment temperature must not exceed meter operation temperature range

The installation board or cabinet should be fixed on a solid, fire-resistant and sturdy wall.

The suggested installation height is about 1.2-1.8 meters.

After installation, the meter back should be fitted to the mounting surface.

When meter used under extreme conditions (ie. Max. current, +70°C, long time), the meter outside surface temperature maybe higher than 90°C. Therefore, the installation surface in contact with meter must be high-temperature resistance and prevent the spread of flames.

The meter can be fixed by 3 points, upper 1 hook and bottom 2 point, the fix screw should be less than $\Phi 5\text{mm}$.

Electric drill with $\Phi 3$ drilling bit for metal meter box installation.

Electric drill with $\Phi 5$ drilling bit and plastic plug for concrete wall installation.

The main installation dimension shown in below figure.

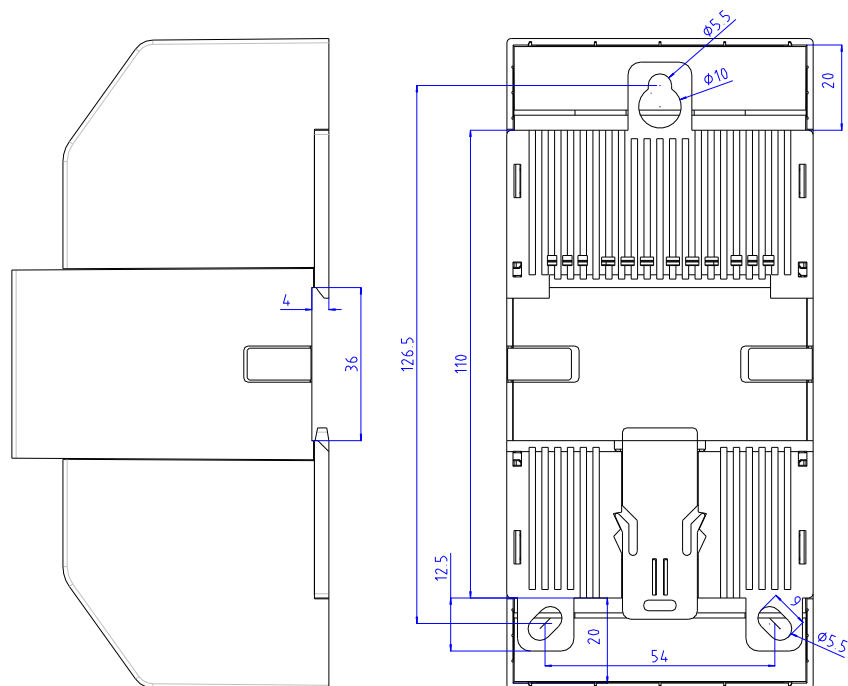


Figure 7: Installation dimensions of PolyPhase meter

The meter can also be fixed by DIN rail of TH 35-7.5 type, release the moveable hook first, then hang the meter on rail by upper hook, finally push the moveable hook to lock.