

Connection manual PRO380

3 phase Smart meter

Product version: 1.18 / 1.19

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Introduction:



The Inepro metering, 3phase smart PRO series are MID certified for connection,

- 3phase 4 wire
- 3 phase 3wire open delta (Aron)
- 3 phase 3wire Delta
- single phase

Separate from tension and frequency there are differences in the way electricity is distributed. Basically the distinction is a split 1phase network common in north America, a 3phase network as in Europe where the 3phase network is subdivided in a star connection (3phase + neutral) and a triangle connection (only 3 phase without neutral). The triangle connection is subdivided in an open delta (Aron) and delta.

3phase 4wire

Most common all over Europe

3phase 3wire open delta (Aron) or 2 wattmeter method

Is considered to be old fashioned and In Europe mainly used in Flanders Belgium, Albania and Norway. In Holland it can exist in parts of Delft and parts of Amsterdam. In Holland and Belgium it is described as 3 x 220v connection. In Norway this way of distribution is called IT-Nett.

In a 3phase open delta network the neutral is missing in the transformer house. The sockets in house are connected with two of the three phases and the tension between phases is 220v to 230v. The tension between phase and earth is 127v to 133v.

In this connection one has to mount the Aron bridge (delivered in the box) between 13 and 17 to get the meter working for this network. See diagram.

3phase 3 wire Delta

All other networks with 3phase and 3wire one does not connect the neutral. See diagram.

1phase 2wire

When a single phase 45A is not sufficient one can use the PRO380 for single phase connection and have up to 100A.

Note:

On all models you see a small grey bridge between 10+11-12+13-14+15-16+17. This belongs to the internal connections and does not be removed only at the CT version where you connect the phase to 10, 12 and 14.



