

## Power over Modbus adapter for PQI-DA smart and PQI-DE

**Plug-in solution for power supply of feeder measurement technology for measuring AC currents via Rogowski coils**

**Art. no.:**

- **111.7080.15.3**



### 1. Use

I-Sense allows additional current measurements to be made by a PQI-DA Smart and PQI-DE, such as for measuring additional feeders. Multiple I-Sense devices can be daisy-chained with a RJ45 cable that conveniently provides both power and data needs.

An injection unit is used between the PQI-DA Smart/PQI-DE and the first I-Sense device, to couple a 24 Vdc supply into the data feed. It features:

- Flying lead for connection to separate 24 Vdc supply.
- RJ45 socket for RJ45 patch connection to the first I-Sense device.
- Phoenix connector to plug directly into PQI-DA smart/PQI-DA RS-485 COM 1 port

### 2. Electrical properties

|                |                              |
|----------------|------------------------------|
| Load capacity: | max. 16 x I-Sense            |
| Power supply   | +24 V DC via open cable ends |

### 3. General properties

|                               |  |
|-------------------------------|--|
| Cable length:                 | Socket to plug (master unit) approx. 30cm<br>Socket to cable ends (power supply unit) Approx. 55cm |
| Temperature range, operation: | -20 to +60 C°  |
| Temperature range, storage:   | -40 to +70 C°  |
| Humidity, operation:          | 15% to 85% (no condensate)   |
| Weight:                       | 150g   |

We'll sort it out.

## 4. Connection



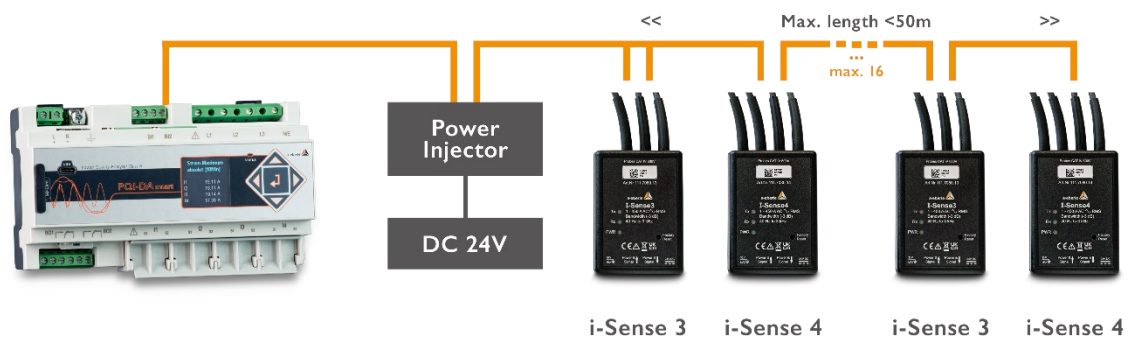
Connector on master    Socket on slave side

| Pin | Description Phoenix connector | Description RJ45 socket |
|-----|-------------------------------|-------------------------|
| 1   |                               |                         |
| 2   |                               |                         |
| 3   | GND                           |                         |
| 4   |                               | Modbus B                |
| 5   |                               | Modbus A                |
| 6   | Modbus B                      |                         |
| 7   | Modbus A                      | +24V                    |
| 8   | Not available                 | GND                     |

The power supply is provided via the wire ends fitted with wire end ferrules.

| Core colour | Supply voltage |
|-------------|----------------|
| White       | +24V           |
| Brown       | GND            |

With the help of the adapter, the connection to the I-Sense is established on one side of the socket and to the device (COM) of the PQI-DA smart / PQI-DE on the other. By "chaining" via the RJ45 socket, up to 16 devices/outlets can be supplied with power.



We'll sort it out.

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## 5. Ordering information

| Accessories   | IDENT no.            |
|---|----------------------|
| <ul style="list-style-type: none"><li>● <b>DIN rail power supply 10W</b>, 90 → 264V ac, 24V dc / 400mA, HxWxD: 91mm x 18mm x 57,5mm"</li></ul>  | <b>111.7080.15.2</b> |
| <ul style="list-style-type: none"><li>● <b>Power injector I-Sense PQI-DA smart / PQI-DE</b>; adapter cable to be able to supply the I-Sense units via a power supply unit using patch cables.</li></ul> | <b>111.7080.15.3</b> |

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