

Configuration Manual — PQ Plus

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1. Introduction

Dear customer,

The following configuration instructions describe the integration of PQ-Plus meters in FEMS. Please read these instructions carefully before starting the installation and configuration.

2. Product description

Modbus/TCP (Ethernet):

- UMD 96EL
- UMD 97EL
- UMD 97E

Modbus/RTU (RS485):

- UMD 96S
- UMD 97CBM
- UMD 97E

3. Integration via Modbus/TCP (Ethernet)

Installation and configuration of the meter according to the manufacturer's instructions.

3.1. Configuration of the meter

For integration via Ethernet, the following parameters must be set in the meter itself:

- A **fixed IP address** must be assigned during the Ethernet configuration.

FEMS and PQ-Plus meter must be in the same network!

- PQ Plus also offers a BOOTP and DHCP mode. These are **incompatible** with FEMS!

3.2. Configuration of the app

When you ordered the FEMS App Production and Consumption Meter, you received a 16-digit license key. You can redeem the app independently in the FEMS App Center using the license key. You can find instructions on how to do this at here.

After entering the license key, the configuration interface appears.

[Konfigurationsoberfläche -- Einbindung über Modbus/TCP] |
/other/en/meters/pq_plus/PQ_Plus_TCP.jpg

Image 1. Configuration interface — Integration via Modbus/TCP (Ethernet)

Select the device model (here: PQ Plus UMD 96EL), the type of use (here: as a production meter) and the integration (Modbus/TCP (Ethernet)).

Then enter the IP address and port from the configuration of the meter section, as well as whether you want to invert the meter values. The Modbus unit ID is only used internally and does not need to be adjusted.

Complete the setup by tapping/clicking on *INSTALL APP*.

4. Integration via Modbus/RTU (RS485)

Installation and configuration of the meter according to the manufacturer's instructions.

4.1. Configuration of the meter

For integration via RS485, the following parameters must be set in the meter:

- Baud rate: 9600
- Stop bit: 1
- Parity: None

The device address (Modbus ID) can be freely selected and must be individual for each meter.

4.2. Configuration of the app

When you ordered the FEMS App Production and Consumption Meter, you received a 16-digit license key. You can use this license key to redeem the app independently in the FEMS App Center. You can find instructions on how to do this at here.

After entering the license key, the configuration interface appears.

4.2. Configuration of the app



Image 2. Configuration interface — Integration via Modbus/RTU (RS485)

Select the device model (here: PQ Plus UMD 96S), the type of use (here: as a production meter) and the integration (Modbus/RTU (RS485)).

Then enter the Modbus ID (this may be preselected) and the Modbus unit ID.

Complete the setup by clicking *INSTALL APP*.