Energy Meter 700-PN
The PROFINET specialist
Let’s connect.

REST interface
- Software interface to query measured values via an HTTP protocol, e.g. to include the measured data in higher-level software solutions (GLT, PLC, SCADA, etc.)
- Machine-machine communication thanks to a simple architecture model

RCM (residual current)
- Fire and device protection
- System safety
- Identifying insulation faults
- Safeguarding system availability

Web server
- Real-time display of current power / current and voltage values on the device homepage
- Device homepage can be called in the browser at any time
- Online measured values display

ecoExplorer go
- Visualisation and evaluation of the measured values
- Simple report creation
- Setting up energy management systems in accordance with ISO 50001

Energy management with added value - We support you with our coordinated range of services:

Implementation of energy management according to 50001 and energy audits according to EN 16247-1.
Energy law-compact for advice on legal obligations and possible state benefits.
Energy efficiency analysis for identification and evaluation of savings potentials.
Energy concept Starter to show the approaches for optimization of your energy generation.
Load profile analysis for energy data analysis in order to successfully improve the efficiency of the company.
EnPI checks to support the fulfillment of the standard requirements according to DIN ISO 50006.
Subsidy checks to illustrate possible subsidies that can be used for corresponding measures in can be claimed.
EMC seminars for standard-compliant application in the plant engineering and building automation.

Let’s connect.

Ordering data

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Communication from the machine to the web
Depending on the application, a marketable industrial Ethernet must handle safety applications or the entire range of drive technology, right up to synchronous motion control with cycle times of less than a millisecond. You can achieve this using a clever distribution of protocols via the OSI layered system structure. This results in many solutions. One of the most common is the open standard, PROFINET, which also provides a great deal of investment protection.

Capturing measured data using PROFINET
PROFINET already saves costs during installation, engineering and commissioning. The operator later benefits from its ease of extension and high availability thanks to subsystems that run autonomously. Accordingly, PROFINET is represented in all applications in machinery and system construction.

The PROFINET specialist: Energy Meter 700-PN
Is equipped with two Ethernet interfaces that conform to PROFINET I/O-IT and an integrated switch. In addition, our ecoExplorer software is visualized and evaluated in real time. Another highlight is the integrated RCM.

100% conformity with the PROFINET standard, including PROFIenergy:
Certificated for PROFINET and is suitable for using PROFIenergy. A PROFINET certificate attests to a response that conforms to standards in accordance with IEC 61158 within a PROFINET network and, therefore, guarantees a high standard of quality.

6 current channels
• Current measurement channel for phase L1
• Current measurement channel for phase L2
• Current measurement channel for phase L3
• Current measurement channel for neutral conductor
• 2 x RCM (optional thermistor input)

Interfaces
• 2 Ethernet interfaces that conform to PROFINET and integrated switch to set up line topologies
• Additional RS485 interface
• 2 digital outputs (pulse output, switch output, threshold value output, logic output)
• 3 additional digital inputs/outputs