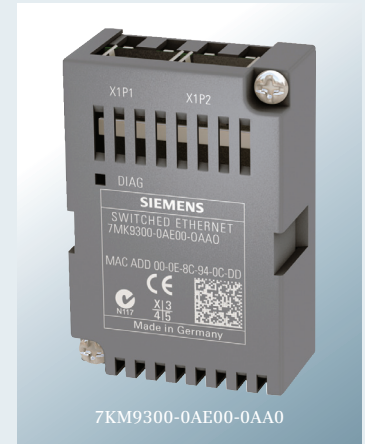


# Expanding PAC Meter Communications capability for Energy Management systems

The advanced add-on Ethernet PROFINET communications module is designed to plug directly into the back of the PAC 3200 and 4200 series power meters. The unique PAC meter design allows the automatic identification of the new PROFINET module and the provides relevant setup menus on the display.

All measurement variables from the PAC 3200 and PAC 4200 are individually selected and transmitted by means of the GSDML file. This enables optimum use of the process image of the PROFINET controller.

The measured variables can be read out in acyclic mode using PROFlenergy, a PNO protocol profile. The use of PROFlenergy makes it possible to assemble an energy management system with devices from various manufacturers using PROFINET.



## Highlights / Innovations

- PROFlenergy, as standardized interface for the measured variables
- Measured variables are individually selectable via GSDML file, providing a cost-effective solution using the S7-CPU's
- Fast/Easy field installable communications modules requiring no special tools or configuration software
- Simple parameter setting via the PAC meter display and STEP 7

## Functions

- The new integrated PROFINET module allows dual PROFINET and Modbus TCP communications in one Ethernet connection
- Integration into the production machines by IRT (IRT = Isochronous Real time)
- Complete support of PROFINET IO (DHC, DNS, SNMP, SNTP)
- Device exchange without PG in PROFINET composite by LLDP
- Deterministic recovery periods by Media Redundancy Protocol (MRP) - Modbus TCP for communication with Siemens energy management software

## Interfaces

- 2 x Ethernet (RJ45-Sockets) with Autocrossover & Autonegotiation
- Baud rates 10 and 100 Mbit/s
- Protocols PROFINET IO || PROFlenergy || Modbus TCP

## PAC PROFINET Expansion Module

# Reliable and precise monitoring of electrical power systems

The PAC series meters are feature packed power monitoring devices that are suitable for use in industrial, government and commercial applications where basic to advanced metering, logging, and I/O is required. The meters may be used as a stand alone device monitoring up to 200 parameters or as part of an industrial control, building automation or global enterprise wide monitoring system.

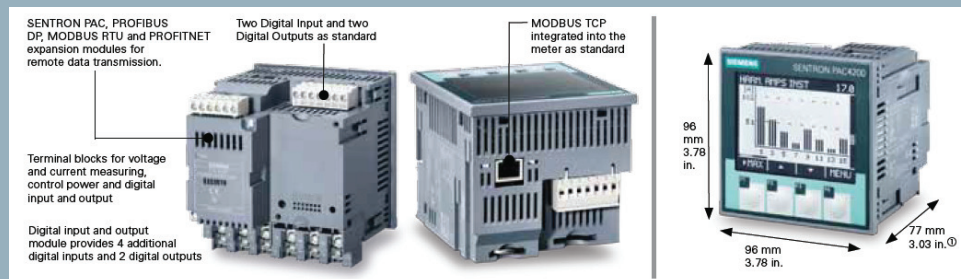
Metering and monitoring applications range from advanced power quality monitoring and logging applications to single low voltage breaker / building metering to sub-station main feeder monitoring, sub-billing or cost allocation installations with multiple tariffs. Whether your goal is to reduce operation cost, reduce your carbon footprint or to maintain your power assets, the PAC series meters will be a key component of your power monitoring system.

The PAC series meters provide multiple open communications options using the standard built-in Ethernet or serial Modbus\* protocols, or optional PROFIBUS-DP and PROFINET modules. These options allow the PAC meters to communicate multiple protocols at the same time. This allows for easy integration into any monitoring or control system.

\*availability of standard communication feature and expansion module on PAC meter depends on model:

PAC 3100 Modbus RTU

PAC 3200 / PAC 4200 Ethernet Modbus TCP



Siemens Power Distribution Solutions recognizes that high performance facilities make for high performance business. Energy is the lifeline of your business, and better efficiency and sustainability can have a large positive impact on your bottom line.

The Energy Management and Control Systems from Siemens provide a complete enterprise solution that help you manage the energy costs and availability of your business. With our advanced meters and controls, you can be sure to use only the energy you need, when you need it.

Siemens Power Distribution Solutions can also contribute toward achieving LEED® certification and provides the needed energy metering data for federal/local government energy reductions programs.

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