# PAC3100 PRODUCT FEATURES Powermeter

The power monitoring device have a large, graphical LCD display on which all measured variables are clearly visible. The four function keys combined with the multi-language plaintext displays make intuitive user guidance possible. The experienced operator can also use direct navigation for quicker selection of the desired display menu. The power monitoring devices have a range of useful monitoring, diagnostics and service functions, a two-tariff active energy and reactive energy counter, a universal counter, and an operating hours counter for monitoring the running time of connected loads.

PAC3100 device are designed for sophisticated energy management operations in industrial environments. They can be used in any 50 Hz and 60 Hz grids and measure electrical parameters such as voltage, phase current and frequency as well as active, reactive and apparent power. In addition to instantaneous values, the devices also store precise mean values for periods between 10 seconds and 15 minutes.

The devices are certified according to International Electrotechnical Commission (IEC) and Underwriters Laboratories (UL) standards and can be used worldwide.

**Measurement**

- Measurement of all relevant electrical variables in an AC system
- Measurement of minimum and maximum values of all measured variables
- Averaging of all measured values directly on the device in two stages, which are independent of each other and freely configurable (aggregation)

**Counters and power demand**

- A number of energy counters capture active energy, reactive energy, apparent energy for off-peak and on-peak, import and export.
- Calculation and storage of the average value for active power and reactive power from the last demand period to allow simple generation of load profiles using software. Programmable demand period from 1 to 60 mins.
- Daily energy counter for active energy for each day of the preceding two months.
- Monthly energy counter for active energy for each month of the preceding two years.
- Configurable universal counter for counting limit violations and status changes at the digital input or output, or for indicating the active energy or reactive energy of a connected pulse encoder.
- Operating hours counter for monitoring the runtime of a connected load.

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