With CANopen interface

The PM-3133-CPS power meter by ICP DAS provides a CANopen interface for users to gather real-time power consumption information in connected devices. The meter complies with CiA 401.

The module measures current and voltage with an accuracy of <0,5 % (Photo: ICP DAS)

THE DEVICE CAN ACQUIRE currents up to 200 A and voltages up to 500 V. The measured analog values are stored in the object dictionary and mapped into PDOs. This includes true RMS voltage, True RMS current, active power, apparent power, apparent energy, reactive power, reactive energy, power factor, and frequency. Users can employ the PDO event timer to periodically transmit the measured power consumption data. The meter also features two digital relay outputs for sirens or lightings indicating alarms.

The power meter provides error process mechanisms as defined in CiA 301 and CiA 401. The implemented CANopen physical layer is able to support 64 nodes in the same network. It is galvanically isolated (2,5 kV). The DIN-rail mountable unit operates in the temperature range from -10 °C to + 70 °C.