

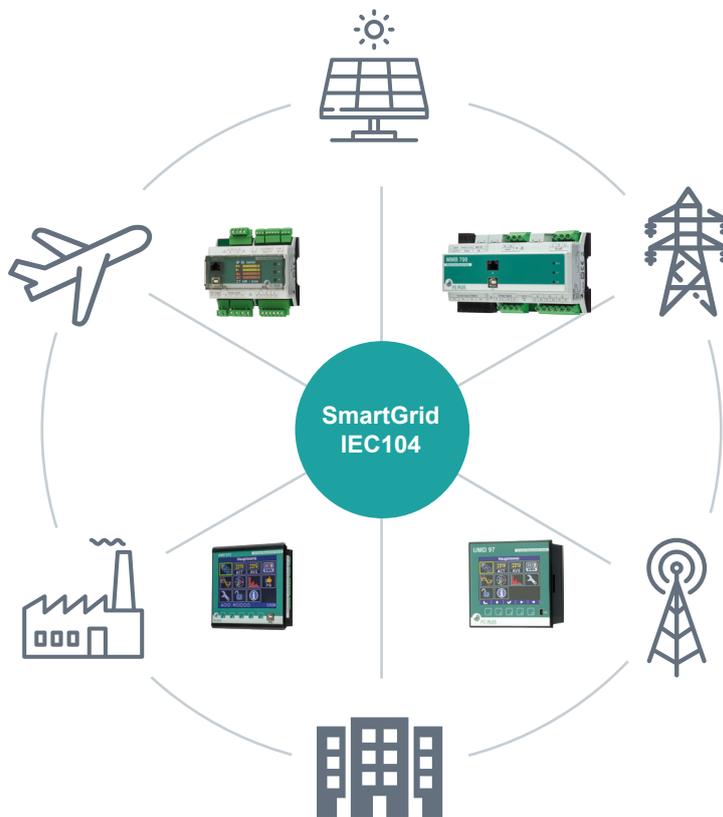
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IEC104 (telecontrol protocol IEC 60870-5-104)

The smart-grid capable analysers optionally support a telecontrol protocol according to IEC 60870-5-104. The “104 protocol” is one of the most common and manufacturer-independent communication protocols to provide periodic data as well as events for the monitoring SCADA system in modern power supply and industrial applications. This protocol uses Ethernet and TCP/IP for communication and requires only a simple configuration of the trigger criteria for the basic variables to be operated via this protocol. Each value can be independently configured to be sent periodically with a delta criterion or as a result of an event. For more

complex functionality, our flexible I/O management can also be used or even extended to implement even more demanding requirements. Standard data types and options are supported. Each instrument can also work with an RTU unit to implement other common smart grid and smart metering communication protocols such as DLMS and IEC 61850. For IT infrastructure management and specifically for monitoring the energy of the IoT and the building or computer centre, the SNMP and MQTT protocols are used.



Designation	Description	Availability	Order no.
IEC 104	IEC 60870-5-104	See technical specifications	52.21.1345