

PRODUCT DATASHEET

Type: Monitoring-Set-6
Art. Nr.: 44729



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Short description

Energy monitoring set for up to 6 circuits



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Product Description

Set consisting of Gridbox, Energy Manager and Sensor bar for 6 circuits. The GridBox is the ideal supplement for system packages, consisting of photovoltaic systems and electricity storage units; it ensures transparency of energy flows in the house and is the central connection of electricity-based components. The GridBox can be easily installed via the router or switch. Registration takes place in a user-friendly way by means of the supplied start code. It is used for intuitive visualization of energy flows from electricity storage, a photovoltaic system and household consumption. The connection and visualization of the consumption values of the ETHERMA heating system or a car charging station can be optionally implemented. The current power values, as well as the autarky rate and the energy mix, are displayed. For this purpose, a detailed report can be retrieved, which shows the energy balance over different time periods. The Energy Manager is a fully integrated smart meter with real-time data collection. Thereby, a 3-phase energy measurement takes place with regard to collection and feed-in of the energy. A direct connection up to 63 A is possible. Optionally, a maximum of 96 current sensors can be connected for detailed monitoring of the sub-distribution or at circuit level. The calculation of the active energies is based on the apparent currents of the current sensors. There is an automatic assignment of the power factor from the corresponding phase. The input is possible manually or via automatic mode. The device is mounted on a top-hat rail (4TE). Colour: black, dimensions 88x70x65 mm, protection rating: IP 2X, CE marking, 230 V. The sensor bar makes it possible to extend energy monitoring to a heating circuit or circuit level. Currents in AC networks up to 63 A can be measured. This enables power measurement and indication of, for example, the active energy of individual loads in low-voltage networks, but also the interconnection and monitoring of consumer groups. The measured data is forwarded to the Energy Manager via the RS485-Bus and evaluated. Up to 96 current sensors can be connected to one Energy Manager.

ETIM characteristics

Application	Other	Supply voltage	12 12 Volt
Voltage type (supply voltage)	DC	Number of phases	3
Supporting protocol for CAN	✗	Power	3.6 Kilowatt
Supporting protocol for Modbus	✗	Rated operation current I_e at AC-1	0 Ampere
With communication interface Ethernet	✓	Rated operation current I_e at AC-3	0 Ampere
With communication interface RS-232	✗	Rated operation current I_e at AC-15, 400 V	16 Ampere
With communication interface RS-485	✗	Reduction line voltage	0 Volt
		Width	139 Millimetre
		Depth	122 Millimetre
		Height	144 Millimetre

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