KET-MDC-416



APPLICATIONS

monitoring consumption

Accounting









ModBUS Power Meter for 6-channel Continuous Current with OLED display and Hall effect sensors

- Oled graphic display
- Small Hall Sensor
- Integrated calibration menu
- ModBUS RTU protocol

The KET-MDC-416 is an energy meter specifically designed for direct current (DC) loads. This advanced device is capable of monitoring up to 6 channels simultaneously, with currents ranging from -2500 A to +2500 A. For signal transduction, the meter utilizes compact Hall sensors, connected via 2-meter long cables, ensuring flexibility in sensor installation and placement. Thanks to the integrated display, it is possible to view in real-time for each of the 6 channels the values of current, power, and the energy counter, in addition to the supply voltage common to all channels. This feature offers immediate and detailed local consumption monitoring. The KET-MDC-416 is equipped with an RS485 interface with ModBUS RTU protocol, ensuring compatibility with any third-party ModBUS RTU master, facilitating integration into existing supervision and control systems. This energy meter is particularly suitable for applications in the TelCo sector, thanks to its wide supply voltage range. A distinctive feature of the KET-MDC-416 is its self-powering directly from the voltage used for energy calculation, simplifying installation and reducing the need for external power supplies.

TECHNICAL FEATURES	
GENERAL SPECIFICATIONS	Protection Range: Front: IP40; Screw Terminals: IP20 Operative Temperature: -30 ÷ +70 °C Storage Temperature: Relative Humidity:
CASE	Dimensions: 106,3 x 90 x 62 mm (W x H x D) Mounting: Wall mounting or on DIN rail Required DIN modules: 6 DIN modules Electric Board Type: Industrial or switchboard Material: Blend PC/ABS self extinguishing UL94-VO
POWER SUPPLY	Supply Voltage: 20 ÷ 60 VDC not isolated Consumption: < 1.5 W @ 20 ÷ 60 VDC Connectors types: Removable screw terminals
RS485 INTERFACE	Channels: Supported Protocols: ModBUS RTU Communication Rate: Isolation: Connectors types: Removable screw terminals
CURRENT SENSOR	Sensor Type: Hall effect probe Current Range: -2500 ÷ +2500 A Typical Sensitivity: 280 V/T Precision: 0.5% Tolerance: 1% Linearity: ± 0.2% Linearity Range: -7.5 +7.5 mT Nonlinearity: ±1% Temperature Drift: < ±200 ppm/°C Noise Spectral Density: <125 nT/sqrt(Hz) (f = 10 Hz ÷ 10 Hz)
MEASURING RANGE	Detected: Current and Voltage Calculated: Power and energy for each channel, as well as total values, with energy calculation accuracy of 0.5%.
CERTIFICATIONS	Referends Standard: Approvals: CE Security: EN61010-1 Metrology: EN61000-6-2, EN61000-6-4

