

Pulse counter with optical interface for electricity meter

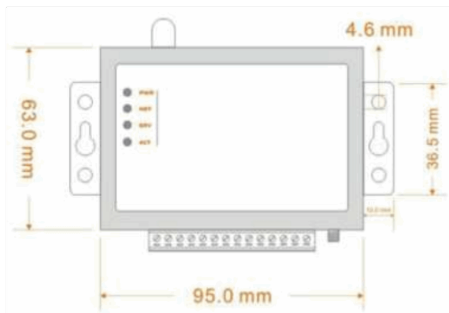
- 4G-LTE Modem
- Internal backup battery
- Configurable via SMS
- RS485 ModBUS RTU

The **KET-MES-420** is a device with 4G-LTE modem, which, via the KET-IOI-100 photodetector, counts the pulses related to the **consumption of energy** drawn from and fed into the **electricity grid**, and can be configured via simple commands sent by SMS. In addition, via the 4 digital inputs, the RS485 ModBUS RTU interface and the TCP/IP server it can interconnect with various industrial devices, such as PLCs, gateways, sensors, ect. Ability to set multiple timers (second, minute, day, week, month) to perform actions, such as data loading. Equipped with an internal battery with a life of 8-20 hours, the modem enters 'sleep' mode in the event of a power failure.

KET-MES-420

Applications

Monitoring consumption



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Technical Features

General specifications	Protection Range: IP30 Operative Temperature: -30 ÷ +70 °C Storage Temperature: Relative Humidity: MAX 95% not condensing
Case	Dimensions: 95 x 63 x 25 mm (W x H x D) Mounting: Wall or back plate mounting
Power supply	Supply Voltage: 9 ÷ 28 VDC (Standard adapter: DC 12V/1.5A) Consumption: 12 V input max. 150 mA - average 50 mA Connectors types: Screw terminal
Ups	Battery Type: Lithium-polymer 3.7V - 500 mAh Approximate Battery Life: 8 - 20 hours
Processors	Processor Type: Cortex M3 32 bit ARM
Rs485 interface	Channels: 1 Supported Protocols: ModBUS RTU Slave Communication Rate: 1200 ÷ 115200 bps (default 9600) Connectors types: Screw terminal
Digital inputs	Channels: 4 for dry contact Digital Inputs: Set as counter with count frequency (10-50Hz)
Pulse counter	Max Error: ±0.3% @ 30 to 50 Hz; ±0.11% @ up to 30 Hz
Modem	Supported Protocols: FDD LTE (4G) Radio Frequency: Antenna Type: SMA connector for GSM antenna SIM Type: SIM card voice/data
Integrated functions	Services: Email alarm notification in case of power failure