

MT 440 - MULTIFUNCTIONAL TRANSDUCER



MT440 are intended for measuring and monitoring single-phase or three-phase electrical power network. They measure RMS value by means of fast sampling of voltage and current signals, which makes instruments suitable for acquisition of transient events. A built-in microcontroller calculates measurands (voltage, current, frequency, energy, power, power factor, THD phase angles, etc.) from the measured signals.

APPLICATION

The MT440 multifunction transducer is used for measuring and monitoring of all single-phase or three-phase values. Wide range of various I/O modules makes MT440 a perfect choice for numerous applications. MT440 is delivered un-configured for customer configuration with user friendly setting software MiQen. MT440 supports standard serial communication RS232 or RS485 with speed up to 115200 baud, which is perfect for simple applications and serial bus interfacing. Additional USB 2.0 interface can only be used for a fast set-up without need for auxiliary power supply. This interface is NOT galvanically isolated from power inputs (aux. supply and measurement inputs) and can be used ONLY-unconnected to power inputs.

Features:

- Voltage and current auto range measurements up to 600V, 12.5A
- Universal wide auxiliary power supply range 24 - 300 Vdc, 40 - 276 Vac
- Power accuracy class 0.5 (EN 60 688)
- Up to four I/O modules (analogue out, pulse out, alarm out, general purpose digital out)
- Sophisticated analogue out; 2 voltage and 4 current ranges, non-linear characteristics ...
- Simple USB setting without auxiliary power supply

PROPERTIES

- Measurements of instantaneous values of more than 50 quantities (V, A, kW, kVA, kvar, kWh, kvarh, PF, Hz, MD thermal, THD, etc)
- Power accuracy class 0.5
- 16 adjustable alarms
- Input frequency: 50/60 Hz, 400 Hz
- Serial communication (RS232 or RS485 up to 115,200 bit/s) and USB 2.0
- MODBUS communication protocol
- Up to 4 I/O (analogue outputs, alarm outputs, pulse outputs, general purpose relay output, general purpose solid-state output)
- Single wide auxiliary power supply range 24 - 300 Vdc, 40 - 276 Vac
- Automatic range of current and voltage (max. 12.5 A and 600 VL-N)
- Housing for DIN rail mounting
- User-friendly setting software, MiQen