



Supplier of Control Instrumentation to the South African Electrical Industry

MT 418 - PROGRAMMABLE AC CURRENT TRANSDUCER



MT418 is intended for measuring and monitoring single-phase electrical power network. Current input is electrically isolated from the system by means of current transformer. It measures true RMS current value by means of fast sampling of current signals, which makes instruments suitable for acquisition of transient events. A built-in microcontroller calculates measurands (current, frequency, THD U, MD) from the measured signals. Measurands (I, f) can be then converted into load independent DC current or voltage which is proportional to the true RMS measured value for the purpose of regulation of analogue and/or digital devices.

APPLICATION

The MT418 current transducer is used for a permanent monitoring of a single-phase current and frequency values. MT418 is delivered configured to default values. Subsequent customer configuration is possible with user friendly setting software MiQen. MT418 supports standard serial RS232/485 with speed up to 115200 bps. USB 2.0 can be used for a fast set-up or memory acquisition (after installation USB connection is not possible any more). 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 analogue output and can be used ONLY unconnected to aux. supply and measuring inputs.

Features:

- True RMS AC current measurements
- Current auto range measurements up to 12 A
- Frequency measurement range 16 - 400 Hz
- AC or universal wide auxiliary power supply range 24 - 300 Vdc, 40 - 276 Vac
- Accuracy class 0.5 (EN 60688)
- Serial (RS232 or RS485) communication
- Sophisticated analogue output; 2 voltage and 4 current ranges, non-linear characteristics ...
- Simple USB setting without auxiliary power supply

PROPERTIES

- Measurements of true RMS current, frequency, THDI and MD
- Accuracy class 0.5 (EN 60688)
- Input frequency range: 50/60 Hz, 400 Hz
- RS 232/RS 485 communication up to 115,200 bit/s and USB 2.0 communication
- MODBUS communication protocol
- Universal power supply or transformer power supply
- Automatic range (max. 12 A)
- Housing for DIN rail mounting
- User-friendly PC MiQen software