In Design

MT440 – Universal Measurement Transducer

The MT440 is a freely programmable measurement transducer for measuring and monitoring single-phase or three-phase electrical networks for the purpose of industry or marine applications (BV approval). The MT440 is available with up to four digital outputs that can be easily configured as analogue, relay, pulse or alarm outputs. In addition, an RS232 or RS485 Modbus RTU communication is available for digitally reading all electrical quantities. By using the free MiQuen software, the outputs, power and voltage settings are fully and freely programmable. This is done using the USB connector on the backside. Optionally, the MT440 is also available with high-speed analogue outputs.

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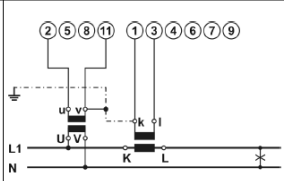
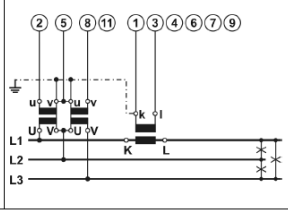
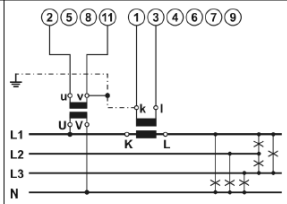
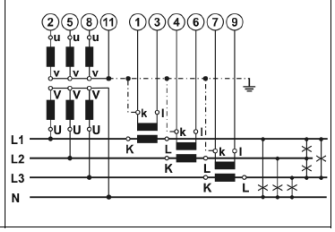
Technical Specifications*

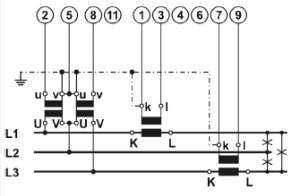
Environment conditions	
This product is safe for use under the following circumstances:	
Location:	Indoors
Environment temperature (use):	-30°C .. +70°C
Environment temperature (storage):	-40°C .. +70°C
Relative humidity:	0% .. 90% RH
Degree of protection:	IP20
Specifications	
Measurement accuracy:	IEC60688:2013
Capacity:	0,50%
Energy:	Class 1
Reactive energy:	Class 2
Power:	0,3%
Voltage:	0,3%
Maximal 4 I/O modules (analogue output/alarm/pulse/relays)	
Power supply	20-300Vdc, 48-276Vac of 400Vac
Voltage measurement	2-600V
Current measurement	0-12,5A
Suitable for 3 phases net without zero	Yes
Suitable for 4 quadrant measurement	Yes
Communication	RS232/RS485
Communication protocol	Modbus RTU

* The universal measurement transducer can be configured thanks to user-friendly software, MiQuen or by ELEQ on request.

Wiring Diagram

System/ connection	Terminal assignment
Single-phase connection 1b (1W)	
Three-phase three-wire connection with balanced load 3b (1W3)	

System/ connection	Terminal assignment
Three-phase four wire connection with balanced load 4b (1W4)	
Three-phase four wire connection with unbalanced load 4u (3W4)	

System/ connection	Terminal assignment
Three-phase three-wire connection with unbalanced load 3u (2W3)	

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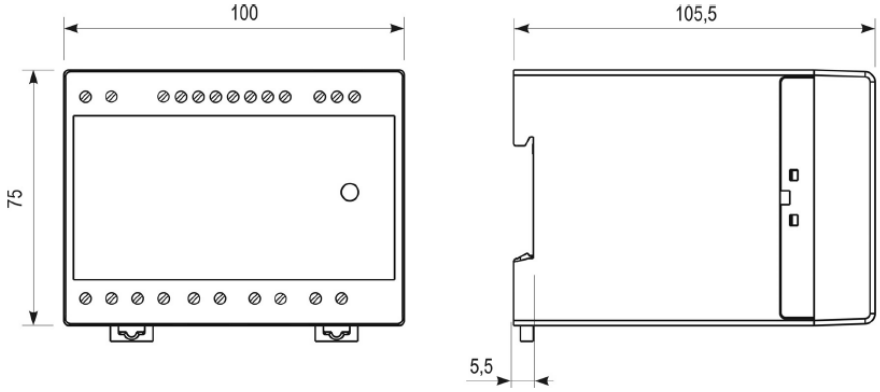
Dimensions