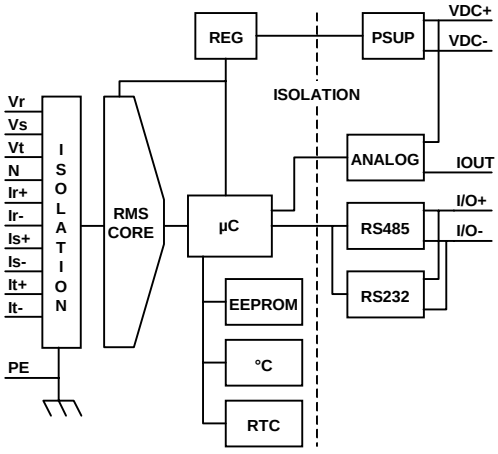
ACM-75A

ISOLATED TRUE RMS AC ANALYZER

- ACM-75A isolated true RMS AC analyzer is an accurate and reliable electronic device designed for harsh industrial environments.
- ACM-75A meets the IEC 521/1036 specification requirements for Class 1 AC Watt hour meters and IEC 1268 Specification requirements for VAR hour meters.
- It's very wide operating temperature range and low power consumption makes the device ideal for industrial applications.
- ACM-75A can be used in industrial automation applications as well as in any place where AC measurements need to be taken.
- ACM-75A features 3-phase voltage and 3-phase current inputs. The module has RS232 or RS485 interface to communicate with other devices using MODBUS™ protocol. An optional 4-20mA analog output is also provided for reading any of the measured value using PLC analog input cards or to monitor a measured value using analog displays.
- ACM-75A is fully calibrated and configured via its RS485 port without requiring any hardware adjustments or modifications. All configuration and calibration data is stored in EEPROM memory of the device.
- ACM-75A utilizes true RMS conversion to maintain accuracy with high crest factor signals. It incorporates fast DSP based RMS core with 24bit simultaneous sampling A/D converters.
- ACM-75A accurately measures 3-phase voltages, 3-phase currents, active power and energy, reactive power and energy, power factor, and frequency. The results can either be in engineering units or in raw data format depending on the configuration of the device.
- Optical and galvanic isolation is provided between the input and output circuits to protect measuring equipment from transient overvoltages which generally exist in industrial environment. The power supply input, signal and data outputs are protected via bi-directional surge suppressing diodes and varistors. RS485/RS232 port is further protected from ±15kV ESD.
- Installation is on a snap-on DIN rail mounting foot. Small physical size allows smaller junction boxes be used. Field terminals accept up to 2.5 mm^2 (14 AWG) wires.



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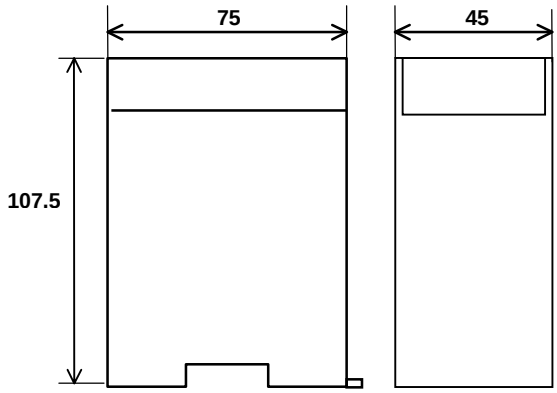
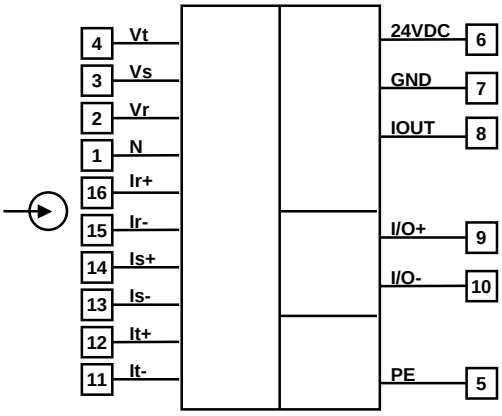
SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
Input voltage range	0...500 V_{AC}
Input current range	0...5 A_{AC}
Continuous overvoltage and overcurrent	100 %
Input signal frequency	40...70 Hz
Current input impedance	0.01 Ω
Voltage input impedance	> 300 kΩ
Accuracy	% 0.5 FS
Protocol	MODBUS RTU
Microcomputer	COP8 @ 20MHz
Programmable analog output	4...20 mA (Optional)
Analog output resolution	12 bit
Analog output compliance voltage	9V
Real Time Clock with Lithium battery	Optional
Temperature sensor	Optional
Operating temperature range	-30°C...+70°C
Power supply	9..36 V_{DC}
Power consumption	< 0.5W
Isolation	2250V

DIMENSIONS



FIELD CONNECTIONS



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