

AC / DC "CT" STYLE RS485 MODBUS SERIAL OUTPUT CURRENT TRANSMITTER

PRODUCT
GROUP
Z

TYPES: QI-50-V-485 (50 Amps)
QI-300-V-485 (150 / 300 Amps Switchable)

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FEATURES

- Primary current 0-50 Amps
- Primary current 0-150 / 0-300 Amps switchable
- Universal AC 20Hz to 2KHz or DC measurement
- Output 0-10VDC & RS485 MODBUS
- Configurable for uni-polar or bi-polar operation (DC current only)
- Class 0.5 accuracy
- TRMS measurement
- Screw mounting or Din rail mounting
- Fast response time

DESCRIPTION

The **QI-50-V-485** and **QI-300-V-485** are moulded case high accuracy **universal DC or AC** current transducers / transformers galvanically isolated from the measuring circuit. The "CT's" are available as a 0-50 Amp fixed range unit, or a switchable, via dip-switch primary current range of either 0-150 Amps or 0-300 Amps and is equipped with both a **0-10VDC dampened output** and **RS485 MODBUS serial communications**.

Also via the dip-switches you can select the CT for uni-polar measurement, or on a DC system bi-polar measurement is also an option (**0-5-10VDC output**), rather than a -10 to 0 to +10VDC output. The dip-switches also configure the Baudrate, the MODBUS address up to a maximum of 15 addresses.

Via the serial port and free software the span, zero and the MODBUS registers are easily configurable. With respect to the span and zero this can be configured freely within the primary current range and output scale. For example you could configure a 95 Amp to 175 Amp primary range with a 2.5-7.0VDC output.

The "CT" requires a supply voltage 12 to 30VDC and has an internal aperture size of 33mm Dia.

The principle of putting in primary turns on CT's to further reduce the primary scale also applies to these current transformers.



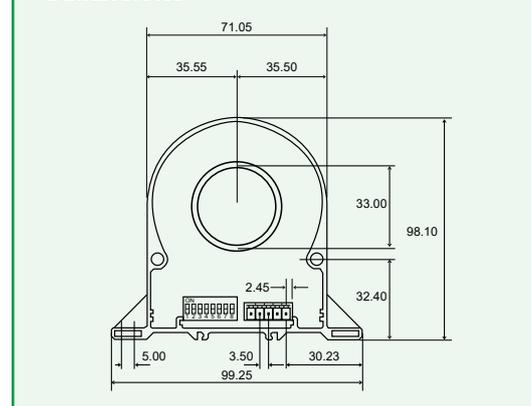
SPECIFICATIONS

Supply voltage:	12 to 30VDC
Power consumption:	Max 20mA
Accuracy:	Class 0.5
Resolution:	12 bit
Temp coefficient:	<200 ppm/°C
Operating temp:	-15 to +65°C
Humidity:	10-90 %RH non condensing
Outputs:	0-10VDC RS485 MODBUS serial
Response time:	1 Sec on 0-10VDC output 30mSec on MODBUS output
Measurement:	0-50 Amps AC/DC 0-300 Amps AC TRMS 20-2000Hz (mono-polar) 0-300 Amps DC (bi-polar)
Isolation:	3KV on an uninsulated conductor
Overload:	1KA continuous, 2KA pulse
Indication:	Via yellow LED Supply voltage connected - fixed illumination Data communicating - flashing
Dip switch:	8 way
Terminals:	5 way removable plug
Mounting:	Screw or Din rail (via included clips)

CONNECTIONS

	→	5. POWER
INPUT	↔	4. B-
0...50/300 A	↔	3. A+
AC/DC	→	2. V OUT
	←	1. GND

DIMENSIONS



ORDERING INFORMATION

P/No's. **QI-50-V-485**
QI-300-V-485