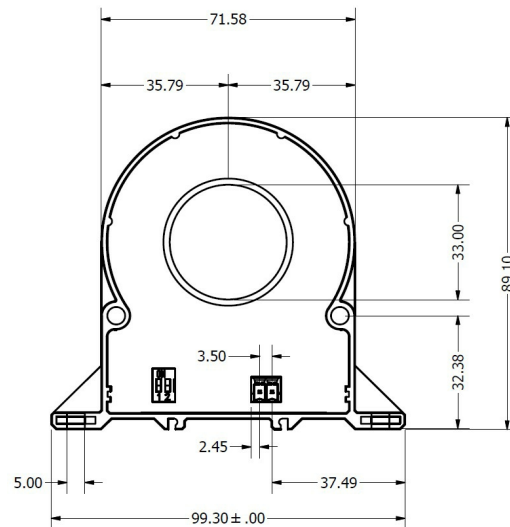


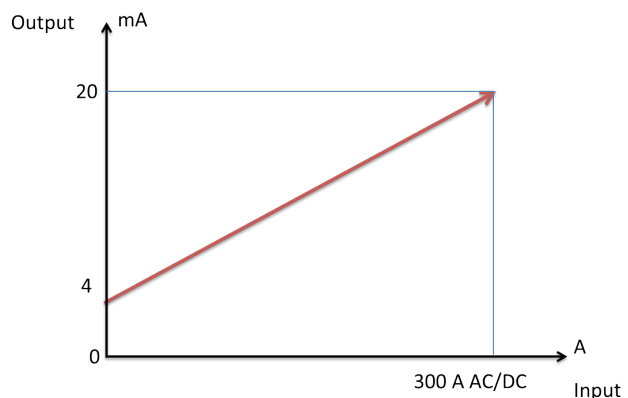
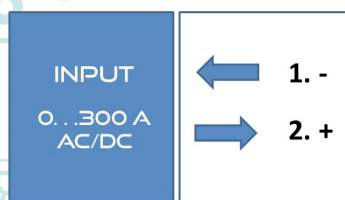
**CURRENT TRANSFORMER  
AC/DC RMS LOOP POWERED**
**QI-300-I**


<b>POWER SUPPLY</b>	Passive loop powered, 11...30 Vdc, Protections against polarity reversal and overtemperature
<b>ABSORPTION</b>	Less than 3,5 mA
<b>PROTECTION INDEX</b>	IP 20
<b>ACCURACY</b>	<b>0,5% F.S.</b>
<b>RISOLUTION</b>	12 bit
<b>TEMPERATURE COEFFICIENT</b>	< 200 ppm/°C
<b>WORKING TEMPERATURE</b>	-15...+65°C
<b>STORAGE TEMPERATURE</b>	-40°C... +85°C
<b>RESPONSE TIME</b>	1000 ms
<b>TYPE OF MEASURE</b>	<b>RMS (monopolar) or DC</b>
<b>RANGE</b>	<b>300 A RMS or 150 A RMS</b> dip-switch setting, bipolar (+/- 300 A DC or +/-150 A DC)
<b>OUTPUT</b>	<b>4...20 mA</b>
<b>BAND WIDTH AT -3 dB</b>	DC or 20...2000 Hz
<b>ISOLATION</b>	3 kV on bare wire
<b>OVERLOAD</b>	2000 A pulse, 500 A continuos
<b>CREST FACTOR</b>	1,4
<b>HYSTERESIS</b>	0,2% f.s.
<b>HUMIDITY</b>	10...90% not condensing
<b>ALTITUDE</b>	Up to 2000 m s.l.m.
<b>WEIGHT</b>	370 g.
<b>FILLING</b>	Epoxy Resins
<b>BOX MATERIAL</b>	PBT, gray
<b>MOUNTING</b>	Screw predisposition for vertical/ horizontal mounting, DIN Rail clips (included) for vertical/ horizontal mounting
<b>TERMINAL</b>	Removable terminals 5,08 mm
<b>DIP-SWITCH</b>	2 poles
<b>LED</b>	N°1 yellow (Power on)
<b>STANDARDS CE</b>	EN55022: 2010-12; EN55024: 2010-11
<b>DIMENSIONS</b>	99,3 x 30,3 x 89,1 mm (terminal excluded)

The QI-300-I is a AC/DC current transformer, galvanically isolated from the measuring circuit. The device is in the function and appearance very similar to a standard active TA, however, able to measure the DC component and AC RMS. The transformer is powered 4-20mA current loop and therefore does not require a direct power supply. It's the first Hall's effect current transformer loop-powered with 0.5% accuracy on the market.


**QI-300-I**
**CURRENT TRANSFORMER  
AC/DC RMS LOOP POWERED**

The images/schemes proposed are to be considered indicative and not binding

**PATENT**
**ISOLATION AND CONNECTIONS**

**ENGLISH**
**1** 10 2022

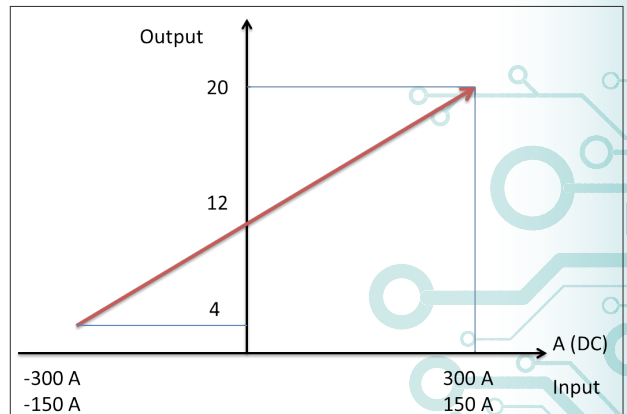
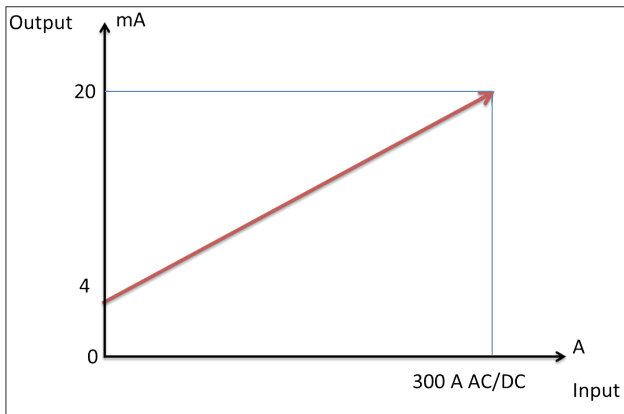


CURRENT TRANSFORMER AC/DC RMS LOOP POWERED

QI-300-I

QI-300-I

CURRENT TRANSFORMER AC/DC RMS LOOP POWERED



The QI-300-I has two dip-switches through which you can set the scale to 150 or 300 A and select the monopolar or bipolar (see charts), the yellow led near the terminal will indicate the presence of the power supply. If you are using bipolar function on AC current, the value read will be 0 A (12 mA) because you are reading the average value.

**Any changes made by dip-switch required to switch off the power supply. It's a safety condition in order to prevent any manumission on the device.**

MOUNTING:

The current transformer QI can be mounted in any position (see photo below), horizontal or vertical mounting, horizontal or vertical through the two hooks for DIN rail included in the box.

DIN rail mounting instructions:

To mount the hooks on QI. If you want to mount horizontally, use the flexibility of hook to catch into prepared by pressing the center of the clip. For vertical mounting, slide the hooks into the slots, external holding the two tabs on the clip.

For mounting on DIN rail horizontally, once hooked on the bottom, push with both hands.

For vertical mounting on DIN rail, once hooked on the bottom, push with both hands on the hooks. To release from DIN rail, use a screwdriver and lever up to release the fins.

Dip-Switch Table:

DESCRIPTION	1	2
MONOPOLAR (RMS) or DC		0
BIPOLAR (MEAN VALUE)		1
300 A	0	
150 A	1	

Measurement Cut off: 250 mA (precision class 0,5% \* full scale 50 A = 0,25 A)

**CAUTION:** Magnetic fields of high intensity can vary the values measured by the transformer. Avoid installation near permanent magnets, electromagnets or iron masses that induce strong changes in the magnetic field. If any irregularity recommend reorient or move the transformer in the area most appropriate.

