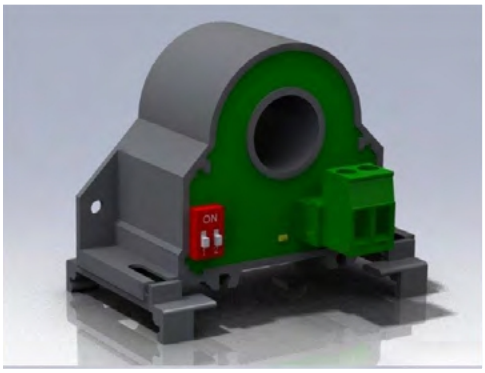
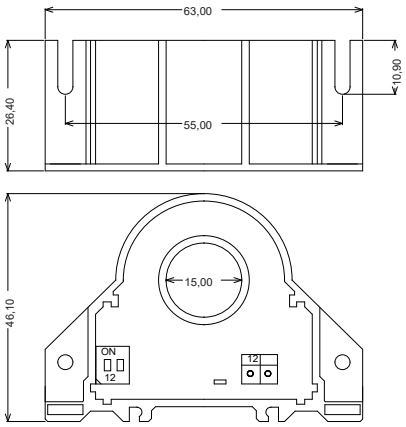
Current Transformer AC/DC TRMS Loop Powered QI-50-I

MADE IN ITALY CE UK CA

The **QI-50-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 **TRMS**. 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



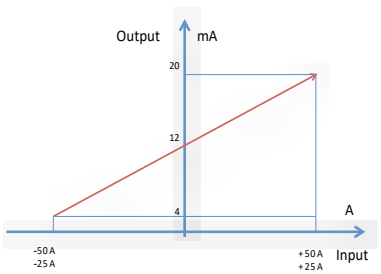


The images/schemes proposed are to be considered indicative and not binding

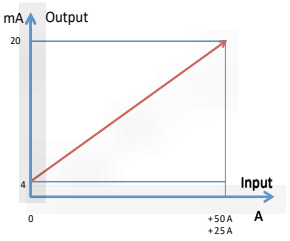
POWER SUPPLY	Passive loop powered, 11...30V, Protections against polarity reversal and overtemperature.
ABSORPTION	Less then 3,5mA
PROTECTION INDEX	IP20
ACCURACY	**0,5%**
RESOLUTION	12 bit
TEMPERATURE COEFFICIENT	< 200 ppm/°C
WORKING TEMPERATURE	-15...+65°C
STORAGE TEMPERATURE	-40°C... +85°C
RESPONSE TIME	1000 ms
TYPE OF MEASURE	
RANGE	**50 Arms o 25 Arms** dip-switch setting,
OUTPUT	**4...20**
BAND WIDTH AT -3dB	DC or 20...2000 Hz
ISOLATION	3 kV on bare wire
OVERLOAD	2000 A pulse, 300A continuos
CREST FACTOR	2
HYSTERESIS	0,15% f.s.
HUMIDITY	10...90% not condensing
ALTITUDE	Up to 2000 m s.l.m.
WEIGHT	72 g.
FILLING	Epoxy Resins
BOX MATERIAL	PBT, gray
MOUNTING	Screw predisposition for vertical/ horizontal mounting, DIN Rail clips (included) for vertical/horizontal mounting
TERMINAL	Removable terminals 5,08mm
DIP-SWITCH	2 poles
LED	N°1 yellow (Power on)
STANDARDS CE	EN61000-6-4/2007-01; EN64000-6-2/2006-10 ; EN61010-1/2001
DIMENSIONS	46,1x 63x 26,4 mm (terminal excluded)

QI-50-I Current Trasformer AC/DC TRMS Loop Powered

QI-50-I input/Output Bipolar

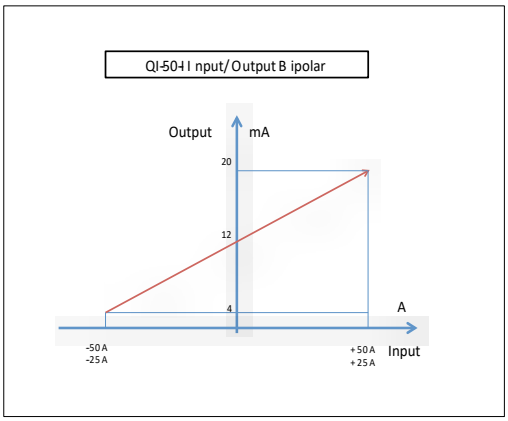


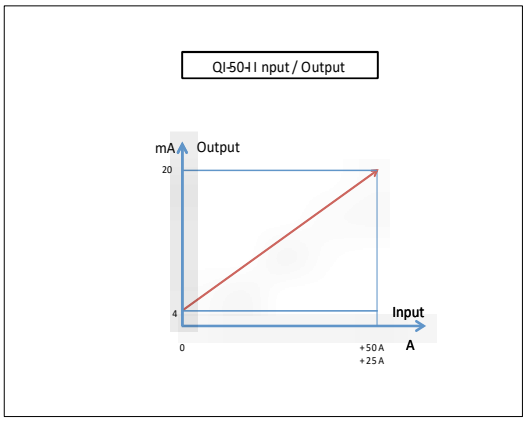
QI-50-I input/Output



DEM SPA - Z.I. Villanova, 20 -32013 Longarone (BL) Italy - tel. +39 0437 761021 -fax +39 0437 760024 - P.Iva 00691730253

Current Transformer AC/DC TRMS Loop Powered QI-50-I





Dip-Switch Table

DESCRIPTION	1	2
MONOPOLAR		0
BIPOLAR		1
50A	0	
25A	1	

The QI-50-I has two dip-switches through which you can set the scale to 25 or 50A and select the monopolar or bipolar (see charts), the yellow led near the terminal will indicate the presence of the power supply.

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.

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.

DIN rail mounting instructions:

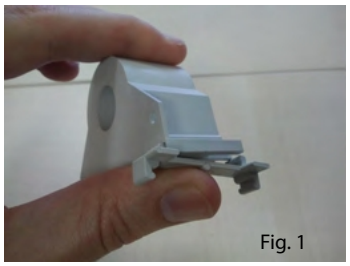


Fig. 1

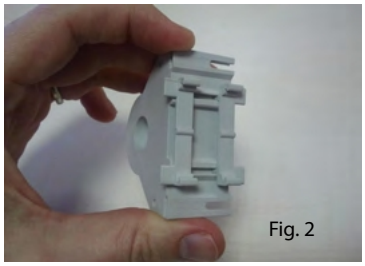


Fig. 2

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 (Fig. 1).

For vertical mounting, slide the hooks into the slots, external holding the two tabs on the clip (Fig. 2)

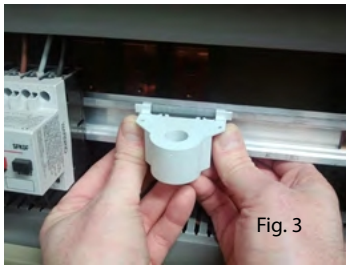


Fig. 3

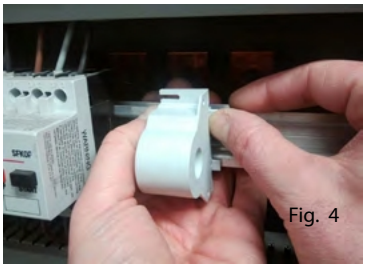


Fig. 4

For mounting on DIN rail horizontally, once hooked on the bottom, push with both hands as shown in fig.3.

For vertical mounting on DIN rail, once hooked on the bottom, push with both hands on the hooks as shown in fig.4

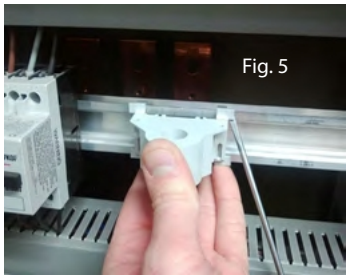


Fig. 5


Fig. 6

To release from DIN rail, use a screwdriver and lever up to release the fins (Figure 5 or Figure 6)

DEM SPA - Z.I. Villanova, 20 -32013 Longarone (BL) Italy - tel. +39 0437 761021 -fax +39 0437 760024 - P.Iva 00691730253