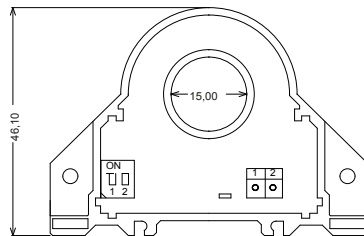
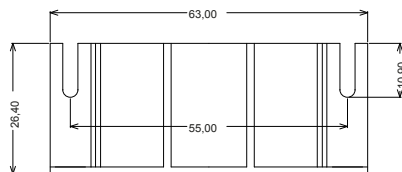
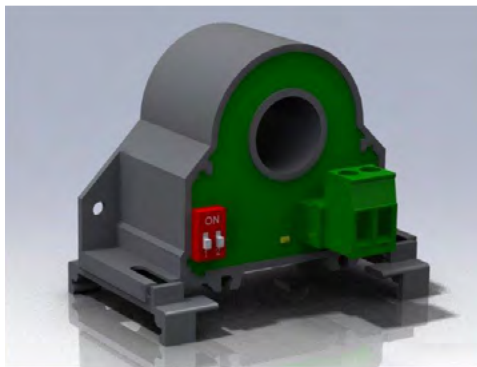




Current Transformer AC/DC TRMS Loop Powered QI-50-I

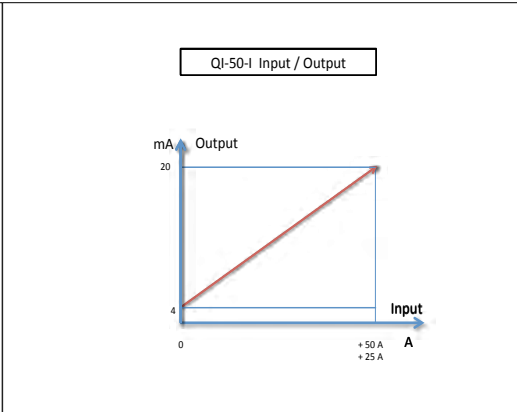
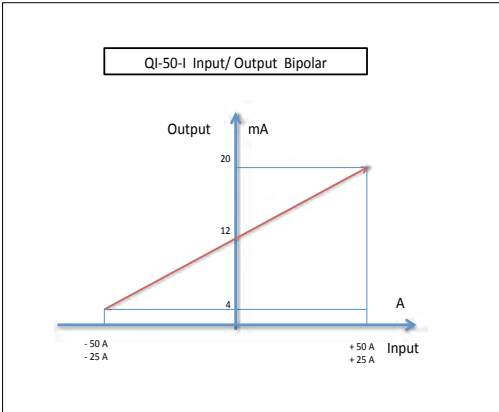


The **QI-50-I** is a AC/DC current transformer, galvanically isolated from the measuring circuit. As for its operation and appearance it is very similar to a standard active TC, however, able to measure DC and AC **TRMS** current. The device is 4-20mA loop powered and so it does not require a direct power supply. It is the first Hall-effect type, loop powered current transformer with an accuracy of 0.5% on the market.



POWER SUPPLY	Passive loop powered, 11...30V, Protections against polarity reversal and overtemperature.
CONSUMPTION	Less then 3,5mA
PROTECTION INDEX	IP20
ACCURACY	0,5% F.S.
RESOLUTION	12 bit
TEMPERATURE COEFFICIENT	< 200 ppm/°C
WORKING TEMPERATURE	-15...+65°C
STORAGE TEMPERATURE	-40°C... +85°C
RESPONSE TIME	1000 ms
MODE OF MEASUREMENT	TRMS
RANGE	50 Arms o 25 Arms by dip-switch setting, bipolar (±50A DC or ±25A DC)
OUTPUT	4... 20 mA DC
BAND WIDTH AT -3dB	DC, 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% RH not condensing
ALTITUDE	Up to 2000 m a.s.l.
WEIGHT	72 g
FILLING	Epoxy Resin
BOX MATERIAL	PBT, gray
MOUNTING	Screw or, 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 (without connectors)

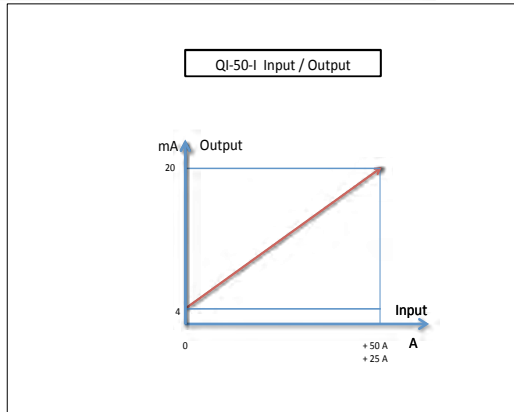
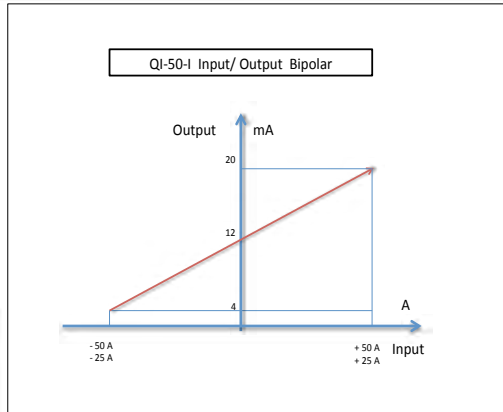
Current Trasformer AC/DC TRMS Loop Powered **QI-50-I**



QI-50-I



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



QI-50-I

Current Transformer AC/DC TRMS Loop Powered

By the two dip-switches of the QI-50-I the measuring range (25 or 50A) and the unipolar / bipolar operation (see the charts) can be set. The yellow led next to the connector indicates the presence of the power.

MOUNTING:

The current transformer QI can be mounted in any position (see photo below), horizontal or vertical by screws or the two hooks delivered with the device for DIN rail mounting.

Dip-Switch Selection Table :

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

CAUTION

Magnetic fields with high intensity can have an effect on the values measured by the transformer. Avoid installation close to permanent magnets, electromagnets or iron masses which can induce strong changes at magnetic field. Under this conditions changing the direction of the CT or moving it to a better place is highly recommended

DIN rail mounting instructions:



Fig. 1

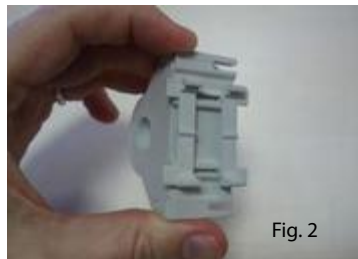


Fig. 2

For mounting the device horizontally use the flexible hook by pressing the centre of the clip (Fig. 1) so it can jump into its prepared place

For vertical mounting, slide the hooks into the slots by holding the two tabs of the clip (Fig. 2) outside.



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)



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