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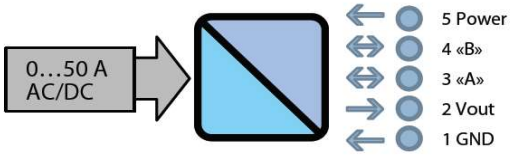
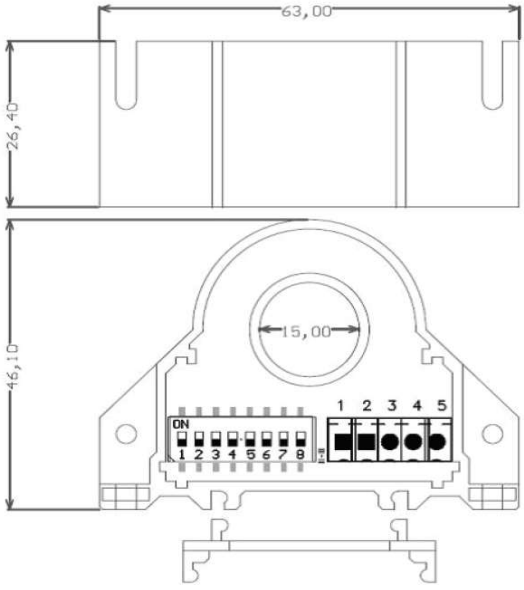
הראשונים 7 הרצליה | 09-9699555 | www.idp.co.il

AC/DC Current Transformer TRMS

The QI-is an isolated, contact –less direct and alternating TRMS current transformer. The device's function and look are very similar to those af an active standard CT, but with the remarkable feature of measuring the continuos component of the pass-trough current. The transformer has two different output, one RS485 Modbus RTU Output that allow to customize span and zero, one analog output 0...10V with dip-switch range setting.





AC/DC Current Transformer TRMS, 0...50A, analog and serial output, adjustable range by Dip-Switch and RS485, DIN rail mounting.

TECHNICAL FEATURES

SUPPLY
12...30 Vdc, Protection against polarity reversal and over- temperature

ABSORPTION
Max 20 mA

PROTECTION INDEX
IP20

ACCURACY
0,5

RESOLUTION
12 bit

TEMPERATURE COEFF.
< 200 ppm/°C

RESPONSE TIME
800...2000 ms

HYSTERESIS
0,15% f.s.

WORKING TEMPERATURE
-15...+65°C

TYPE OF MEASURE
TRMS

RANGE
±50 A rms o ±25 Arms Dip-switch setting or RS485 customize setting

CREST FACTOR
2

BAND WIDTH
DC or from 20...1000 Hz

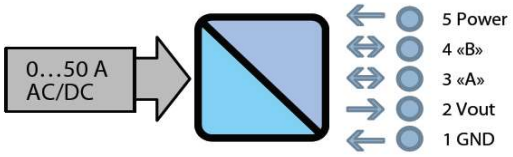
ISOLATION
1 kV on bare wire

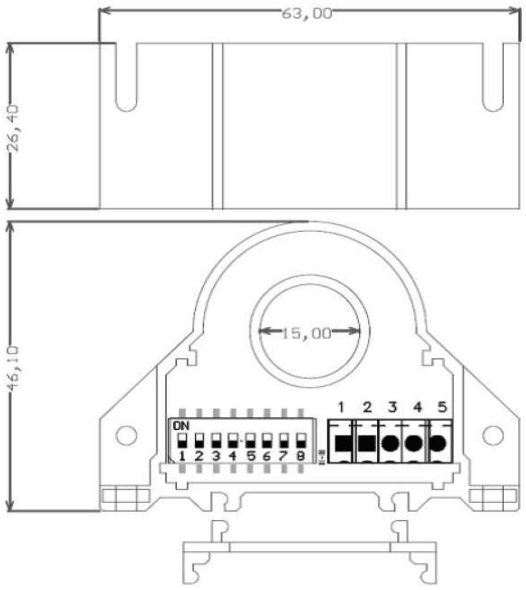
OVERANGE
2.000 A pulse / 300 A continuos

OUTPUT
0...10 V (min. load >2Kohm) and RS485 Modbus RTU

AC/DC Current Transformer TRMS

The QI-50-V-485 is an isolated, contact –less direct and alternating TRMS current transformer. The device's function and look are very similar to those af an active standard CT, but with the remarkable feature of measuring the continuos component of the pass-trough current. The transformer has two different output, one RS485 Modbus RTU Output that allow to customize span and zero, one analog output 0...10V with dip-switch range setting.





AC/DC Current Transformer TRMS, 0...50A, analog and serial output, adjustable range by Dip-Switch and RS485, DIN rail mounting.

TECHNICAL FEATURES

SUPPLY
12...30 Vdc, Protection against polarity reversal and over- temperature

ABSORPTION
Max 20 mA

PROTECTION INDEX
IP20

ACCURACY
0,5

RESOLUTION
12 bit

TEMPERATURE COEFF.
< 200 ppm/°C

RESPONSE TIME
800...2000 ms

HYSTERESIS
0,15% f.s.

WORKING TEMPERATURE
-15...+65°C

TYPE OF MEASURE
TRMS

RANGE
±50 A rms o ±25 Arms Dip-switch setting or RS485 customize setting

CREST FACTOR
2

BAND WIDTH
DC or from 20...1000 Hz

ISOLATION
1 kV on bare wire

OVERANGE
2.000 A pulse / 300 A continuos

OUTPUT
0...10 V (min. load >2Kohm) and RS485 Modbus RTU

AC/DC Current Transformer TRMS

OPERATING MANUAL

OPERATING CONDITION

PROTECTION INDEX
IP20

WORKING TEMPERATURE
-15°C... +65°C

STORAGE TEMPERATURE
-40°C... +85°C

HUMIDITY
10...90% non-condensing

ALTITUDE
Up to 2000 m s.l.m.

CASE

WEIGHT
72 g.

OVERAL DIMENSION
46,1 x 63 x 26,4 mm (without terminals)

FILLING
Epoxy resins

BOX MATERIAL
PBT, grey

MOUNTING
Screw predisposition for vertical/horizontal mounting, DIN rail clips (included) for vertical/horizontal mounting

TERMINALS
Removable terminals 3,5mm, 5 poles

DIP-SWITCH
8 poles

LED
N°1 green, fixed Power on, blinking for data communication

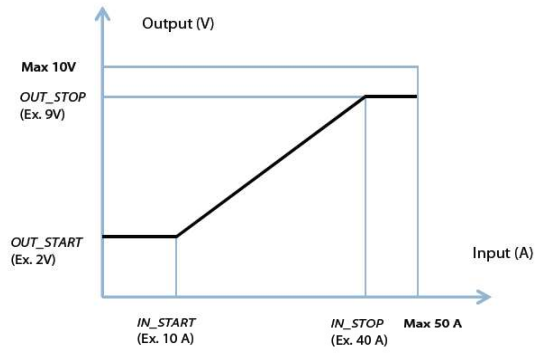
STANDARDS CE
EN61000-6-4/2007-01
EN64000-6-2/2006-10
EN61010-1/2001

You could connect the device via USB/232 -485 converter for manage input and output data (see Modbus Register Map) directly by your Controller or you could use our free software for configure it.

For dip-switch setting please see the table.

TECHNICAL DATA

Input /Output Diagram (Example):



Modbus Register Map:

INDIRIZZO	NOME	DESCRIZIONE	RANGE	DEFAULT	ACCESSO
40001	DEV_ID	numero rappresentativo dell'oggeto		1	R
40002	FW_Fersion	Revisione firmware			
40003	addr	Indirizzo modbus	1..250	1	R/W
40004	Baud	Baud rate:	0..6	2	R/W
		0=2400			
		1=4800			
		2=9600			
		3=19200			
		4=38400			
		5=57600			
		6=115200			
40005	parità	tipo di parità	0..2	0	R/W
		0=8,N,1			
		1=8,E,1 (pari) (EVEN)			
		2=8,O,1 (dispari) (ODD)			
40006	IN_Start	Inizio scala ingresso in decimi di A	0..500	0	R/W
40007	IN_ Stop	Fine scala ingresso in decimi di A	0..500	500	R/W
40008	OUT_Start	Inizio scala uscita in decimi di V	0..100	0	R/W
40009	OUT_Stop	Fine scala uscita in decimi di V	0..100	100	R/W
40010	I_in	Corrente letta in centesimi di A	0..5000		R
40011	status	Registro di stato	0..65535	0	R
40012	DIP	Stato dei dip switch	0..255		R
40013	I_float	Corrente letta floating point hi Byte	0..50,000		R
40014	I_float	Corrente letta floating point lo Byte			

Dip-switch setting:

1	2	3	4	5	6	7	8	DESCRIPTION
0	0	0	0					Communication Parameters from EEPROM
0	0	0	1					ADD=1
0	0	1	0					ADD=2
1	1	1	1					ADD=15
				0	0			2400 BAUDRATE
				0	1			9600 BAUDRATE
				1	0			38400 BAUDRATE
				1	1			57800 BAUDRATE
						0		MONOPOLAR
						1		BIPOLAR
							0	50 A
							1	25 A

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