# T201 SERIES

## ISOLATED, CONTACT-LESS, LOOP POWERED CURRENT TRANSDUCERS





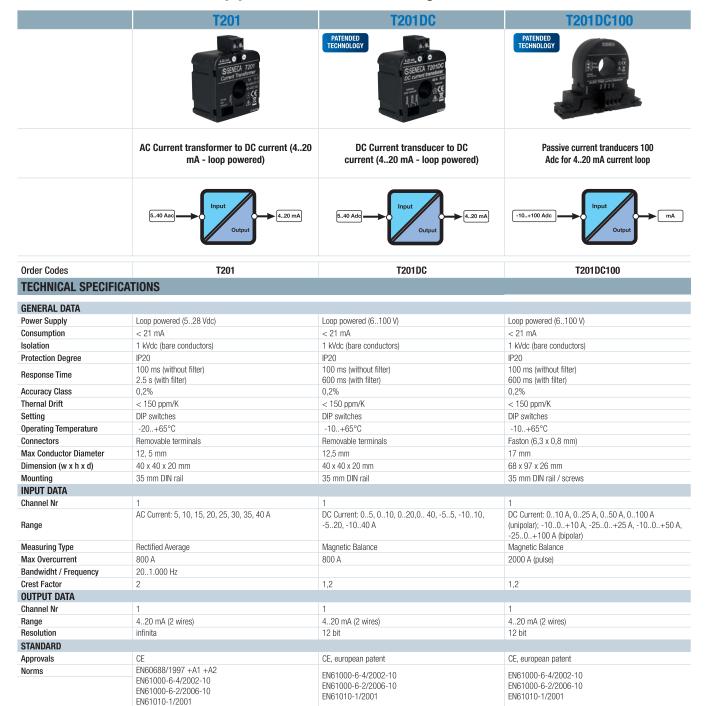


- Input: Selectable range through dip-switches from 5A to 40 / 100 A, single or double polarity
- Output: Voltage (V) or Current (mA)
- Loop power supply
- Low consumption < 21 mA
- Hall effect or Magnetic Principle (patented technology)
- Rectified average, Magnetic balance, TRMS Measurement
- Accuracy class: 0,2 / 0,5 %
- Wide conifiguration range
- Direct use without shunt for pulse current
- Compact dimension



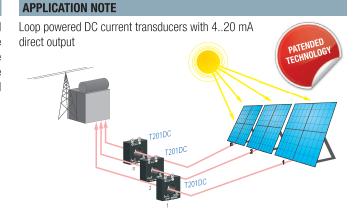
## **T201 SERIES**

## **Loop powered standard and magnetic induction Current Transducers**



#### **MAGNETIC INDUCTION**

Current Transducers who use magnetic induction technology (international patent N  $^{\circ}$  Seneca PD2009A000005) are long-life devices due to the principle of measurement which avoids thermal drift and that exploits the generation of an induced current of the transducer output, through the variation of a magnetic field. It's possible their direct use without external shunts, even for pulse currents.



### **Loop powered Hall effect Current Transducers**



Dimension (w x h x d)	68 x 97 x 26 mm	68 x 97 x 26 mm
Mounting	35 mm DIN rail / screws	35 mm DIN rail / screws
INPUT DATA		
Channel Nr	1	1
Range	AC/DC Current A -50+50 A	AC/DC Current -100+100 A
Measuring Type	TRMS	TRMS
Hysteresis	0,1 % f.s.	0,1 % f.s.
Max Overcurrent	2000 A (pulse)	2000 A (pulse)
Bandwidht / Frequency	1 kHz	1 kHz
Crest Factor	1,2	2

Channel Nr Range 0..10 V 0..10 V 0..10 V 12 bit 12 bit 12 bit Resolution STANDARD

Approvals CF CF CF EN61000-6-4/2002-10 EN61000-6-4/2002-10 EN61000-6-4/2002-10 EN61000-6-2/2006-10 EN61000-6-2/2006-10 Norms EN61000-6-2/2006-10 EN61010-1/2001 EN61010-1/2001 EN61010-1/2001

#### **HALL EFFECT**

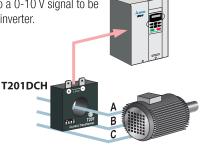
**OUTPUT DATA** 



When a magnetic field is applied perpenducularly to a conductor, a transverse voltage is generated to the direction of current flow. Hall effect transducers are used as alternative to the shunt when dealing with high voltages and high galvanic isolations.

#### **APPLICATION NOTE**

The Hall effect Current Transformer turns the output current coming from electric motor into a 0-10 V signal to be connected to the inverter.



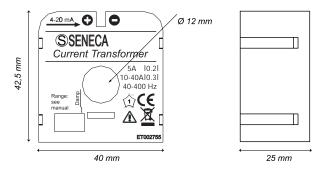
68 x 97 x 26 mm 35 mm DIN rail / screws

TRMS 0,1 % f.s. 2000 A (pulse) 1 kHz

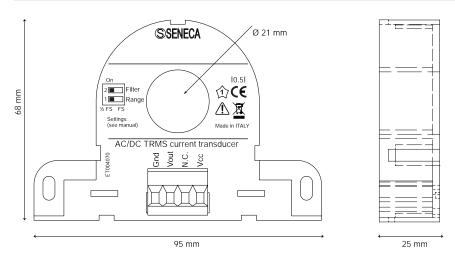
AC/DC Current -300..+300 A

#### **DIMENSION**

#### T201 - T201DC - T201DCH



#### T201DC100 - T201DCH100 - T201DCH300



#### **ACCESSORIES / SPARE PARTS**

Order Code	Description
A-DIN-T201	Plastic clip for DIN rail guide for T-Line products, 45x17 mm



