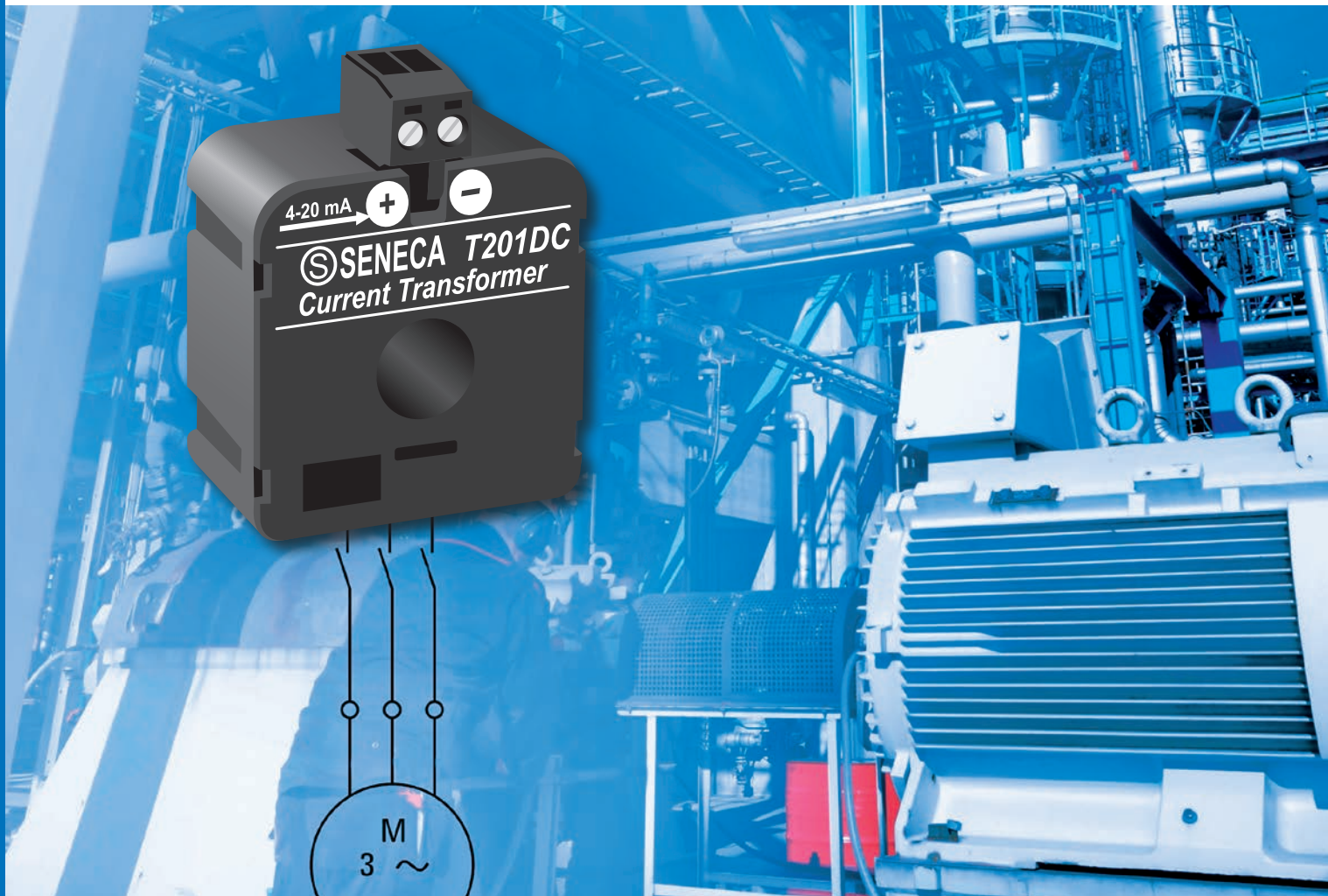


T201 Series

ISOLATED CONTACTLESS CURRENT TRANSDUCERS




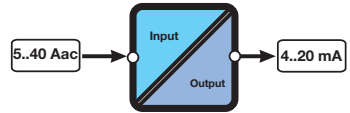
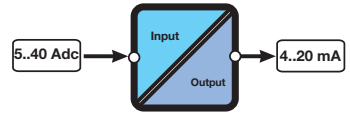
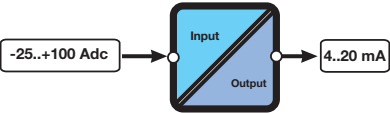


- Input: Selectable range through dip-switches from 5 A to 40 / 100 / 300 A, single or double polarity
- Output: Voltage (V) or Current (mA)
- Loop power supply /auxiliary power supply
- Low consumption < 21 mA
- Hall effect or Magnetic Principle (patented technology)
- Rectified average, Magnetic balance, TRMS Measurement
- Accuracy class: 0,2 / 0,5 %
- Wide configuration range
- Direct use without shunt for pulse current
- Compact dimension

 **SENECA**
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T201 SERIES

LOOP POWERED STANDARD AND MAGNETIC INDUCTION CURRENT TRANSDUCERS

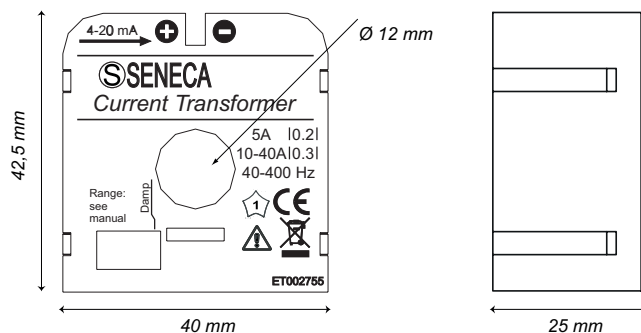
	T201	T201DC	T201DC100
			
	AC/DC Current Transducer up to 40 A (4..20 mA – loop powered)	DC/DC Current Transducer up to 40 A (4..20 mA – loop powered)	DC/DC Current Transducer up to 100A (4..20 mA – loop powered)
			
Order Codes	T201	T201DC	T201DC100

TECHNICAL SPECIFICATIONS

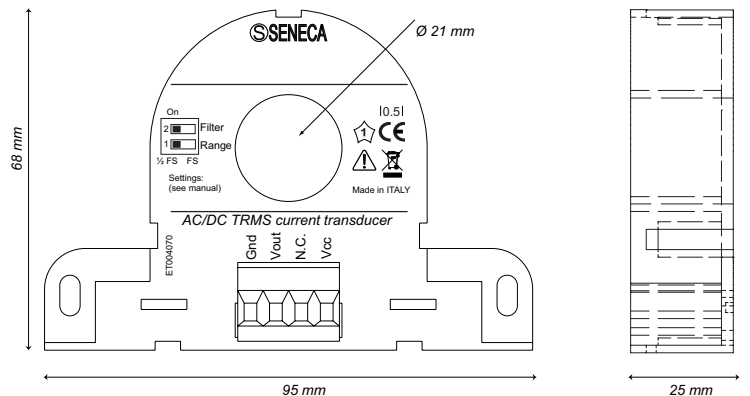
GENERAL DATA			
Power Supply	Loop powered (5..28 Vdc)	Loop powered (6..100 Vdc)	Loop powered (6..100 Vdc)
Consumption	< 21 mA	< 21 mA	< 21 mA
Isolation	1 kVdc (bare conductors)	1 kVdc (bare conductors)	1 kVdc (bare conductors)
Protection Degree	IP20	IP20	IP20
Response Time	100 ms (without filter) 2.5 s (with filter)	100 ms (without filter) 600 ms (with filter)	100 ms (without filter) 600 ms (with filter)
Accuracy Class	0,2%	0,2%	0,2%
Thermal Drift	< 150 ppm/K	< 150 ppm/K	< 150 ppm/K
Setting	DIP switches	DIP switches	DIP switches
Operating Temperature	-20..+65°C	-10..+65°C	-10..+65°C
Connectors	Removable terminals	Removable terminals	Removable terminals
Max Conductor Diameter	12,5 mm	12,5 mm	20,5 mm
Dimension (w x h x d)	40 x 42,5 x 25 mm	40 x 42,5 x 25 mm	68 x 95 x 25 mm
Mounting	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail / screws
INPUT DATA			
Channel Nr	1	1	1
Range	AC Current: 5, 10, 15, 20, 25, 30, 35, 40 A	DC Current: 0.5, 0..10, 0..20, 0..40, -5..5, -10..10, -5..20, -10..40 A	DC Current: 0..10 A, 0..25 A, 0..50 A, 0..100 A (unipolar); -10..0..+10 A, -25..0..+25 A, -10..0..+50 A, -25..0..+100 A (bipolar)
Measuring Type	Rectified Average	Magnetic Balance	Magnetic Balance
Max Overcurrent	800 A	800 A	2000 A (pulse)
Bandwidth / Frequency	20..1.000 Hz		
Crest Factor	2	1,2	1,2
OUTPUT DATA			
Channel Nr	1	1	1
Range	4..20 mA (2 wires)	4..20 mA (2 wires)	4..20 mA (2 wires)
Resolution	unlimited	12 bit	12 bit
STANDARD			
Approvals	CE	CE, european patent	CE, european patent
Norms	EN 60688+A1+A2 EN 61000-6-4 EN 61000-6-2 EN 61010-1	EN 61000-6-4 EN 61000-6-2 EN 61010-1	EN 61000-6-4 EN 61000-6-2 EN 61010-1

DIMENSION




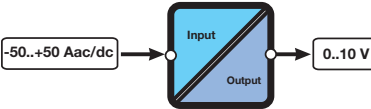
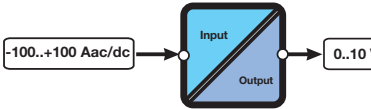
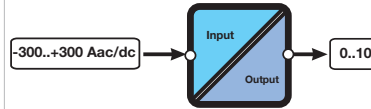
T201 - T201DC - T201DCH



T201DC100 - T201DCH100 - T201DCH300



WITH AUXILIARY POWER SUPPLY

	T201DCH	T201DCH100	T201DCH300
			
	AC/DC TRMS Current Transducer, up to 50A, Hall Effect	AC/DC TRMS Current Transducer, up to 100A, Hall Effect	AC/DC TRMS Current Transducer, up to 300A, Hall Effect
			
Order Codes	T201DCH	T201DCH100	T201DCH300

TECHNICAL SPECIFICATIONS

GENERAL DATA

Power Supply	12..28 Vdc	12..28 Vdc	12..28 Vdc
Consumption	< 21 mA	< 21 mA	< 21 mA
Isolation	1 kVdc (bare conductors)	1 kVdc (bare conductors)	1 kVdc (bare conductors)
Protection Degree	IP20	IP20	IP20
Response Time	Fast filter: 800 ms Slow filter: 2.000 ms	Fast filter: 800 ms Slow filter: 2.000 ms	Fast filter: 800 ms Slow filter: 2.000 ms
Accuracy Class	0,5 % f.s.	0,5% (over 2% of f.s.); 1 % under 2% of f.s.)	0,5% (over 2% of f.s.); 1 % under 2% of f.s.)
Thermal Drift	< 200 ppm/K	< 200 ppm/K	< 200 ppm/K
Setting	DIP switches	DIP switches	DIP switches
Operating Temperature	-10..+65°C	-10..+65°C	-10..+65°C
Connectors	Removable terminals	Removable terminals	Removable terminals
Max Conductor Diameter	12,5 mm	20,5 mm	20,5 mm
Dimension (w x h x d)	40 x 42,5 x 25 mm	68 x 95 x 25 mm	68 x 95 x 25 mm
Mounting	35 mm DIN rail	35 mm DIN rail / screws	35 mm DIN rail / screws

INPUT DATA

Channel Nr	1	1	1
Range	AC/DC Current A -50..+50 A	AC/DC Current -100..+100 A	AC/DC Current -300..+300 A
Measuring Type	TRMS	TRMS	TRMS
Hysteresis	0,1 % f.s.	0,1 % f.s.	0,1 % f.s.
Max Overcurrent	2000 A (pulse)	2000 A (pulse)	2000 A (pulse)
Bandwidth / Frequency	1 kHz	1 kHz	1 kHz
Crest Factor	1,2	2	2


OUTPUT DATA

Channel Nr	1	1	1
Range	0..10 V	0..10 V	0..10 V
Resolution	12 bit	12 bit	12 bit

STANDARD

Approvals	CE	CE	CE
Norms	EN 61000-6-4 EN 61000-6-2 EN 61010-1	EN 61000-6-4 EN 61000-6-2 EN 61010-1	EN 61000-6-4 EN 61000-6-2 EN 61010-1

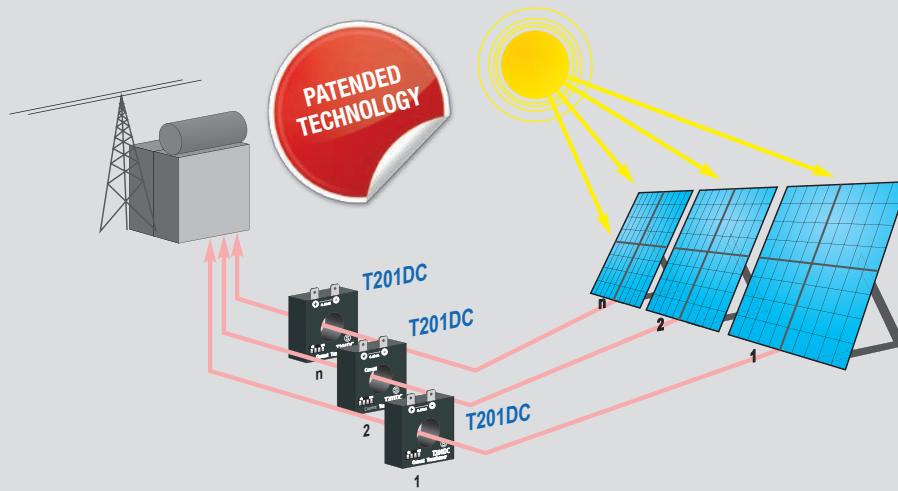
ACCESSORIES / SPARE PARTS

Order code	Description
 A-DIN-T201	Clip for DIN rail mounting, dim.45 x 17 mm. ALREADY INCLUDED INTO ANY PRODUCT PACKAGE

T201 SERIES

MAGNETIC INDUCTION

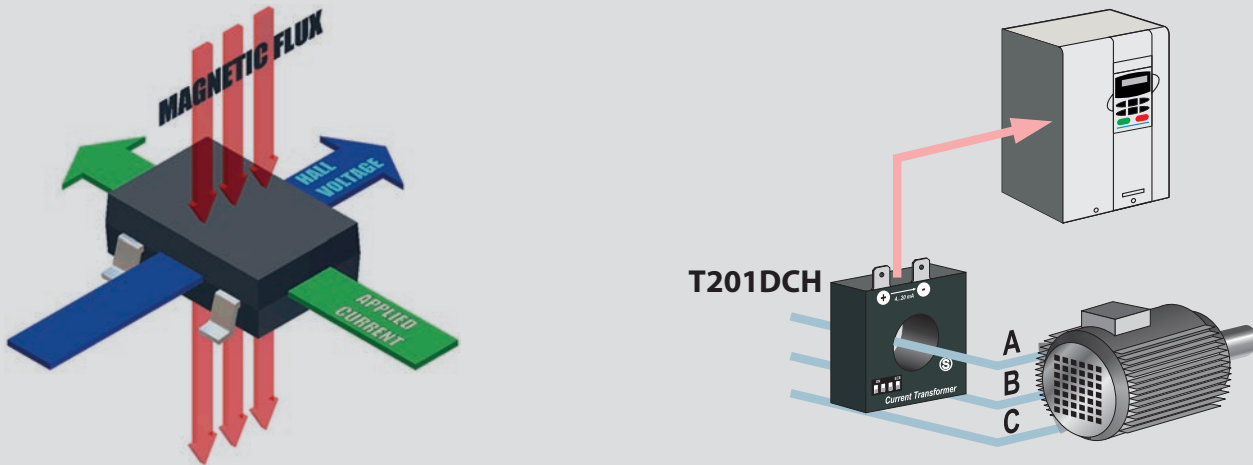
Current Transducers who use magnetic induction technology (international patent N ° Seneca PD2009A000005) are long-life devices due to the principle of measurement which avoids thermal drift and that exploits the generation of an induced current of the transducer output, through the variation of a magnetic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



Loop powered DC current transducers with 4..20 mA direct output

HALL EFFECT

When a magnetic field is applied perpendicularly 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.



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.