

**EN T201**  
**2 WIRE - LOOP POWERED ALTERNATED CURRENT TRANSFORMER**

**General Description**

The T201 instrument is an AC current transformer (CT) for 4..20 mA current loops (loop powered 2 wires technology).

The module's main features are:

- %High precision.
- %Extremely compact size.
- %Wide configurability: eight pre-calibrated ranges, DIP-switch selected.
- %Extremely low consumption.
- %Low output ripple and quick response to variations.

**Technical Specifications**

**Alternating Current Input**

Ranges :	5 A, 10 A, 15 A, 20 A, 25 A, 30 A, 35 A , 40 A (DIP-switch selected).
Absolute Capacity :	Max instantaneous overcurrent: 800 A.
Peak Factor :	2.
Frequency :	20..1000 Hz.
Insulation :	Overvoltage measurement class: CAT III 300 V <sub>AC</sub> towards earth, with an insulated wire (1).
Self-Consumption :	< 50 mW.
Connection :	Feed-through wire (diameter of the hole: 12,5 mm).

**Output/ Power Supply**

Functioning Voltage :	5..28 V <sub>DC</sub> .
Current Output :	4..20 mA (2 wires technology).
Residue ripple :	< 10 μArms @ 20 mA and 50 Hz.
Maximum current :	< 28 mA in overload conditions.

**Other Specifications**

Precision (2) :	<b>Frequency: 40..400 Hz:</b> Range 5A: < 0,1 % o.m. + 0,1 % o.t.s. All the other ranges: < 0,2 % o.m. + 0,1 % o.t.s. <b>Frequency: 20..1000 Hz:</b> Range 5A: < 0,1 % o.m. + 0,3 % o.t.s. All the other ranges: < 0,2 % o.m. + 0,3 % o.t.s. < 40 μA
EMI Error (3) :	Typical: 150 ppm/° K
Temperature Coefficient :	< 100 ms (without filter) / ≈ 2,5 s (with filter)
Response Time (10..90 %) :	

- (1) With a bare bar an insulation voltage equal to 1 kV is guaranteed.
- (2) These acronyms apply: o.m. = of measurement, o.t.s. = of the scale.
- (3) EMI: Electromagnetic disturbances.

Protection Degree :	IP20
Operating conditions :	Temperature -20..+65 °C Humidity 30..90 % at 40 °C (non-condensing) Altitude: up to 2000 m.a.s.l
Storage Temperature :	-20..+85 °C
Connections :	Removable 2-way screw terminals, 5 mm pitch.
Box :	Resined plastic, black.
Dimensions :	42 x 42 x 25 mm, diameter of the central hole: 12,5 mm.
Standards :	EN60688/1997 + A1 + A2. EN61000-6-4/2002-10 (electromagnetic emission, industrial surroundings). EN61000-6-2/2006-10 (electromagnetic immunity, industrial surroundings). EN61010-1/2001 (safety).

**DIP-SWITCHES SETTINGS**

**Factory Configuration**

All the module DIP switches are at position OFF as default configuration. This set corresponds to the following configuration :

- Input Range → 5 A
- Filter → Absent

**Customized Configuration**

For a customized setting of the module, the positions of the DIP-switch are illustrated on the following tables.

Note: for all following tables:

The indication ● indicates that the DIP-switch is set in Position ON. No indication is provided when the DIP-switch is set in Position OFF.

INPUT RANGE							
SW1	1	2	3	SW1	1	2	3
			5 A		●		25 A
	●		10 A		●	●	30 A
	●		15 A		●	●	35 A
	●	●	20 A		●	●	40 A

FILTER (*)	
SW1	4
	● Present
	Absent

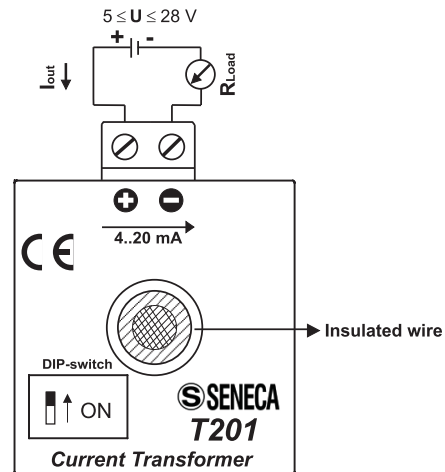
(\*) The input filter slows down the response time to around 2,5 s and stabilizes the measurement.

**Electrical Connections**

**Output**

Current connection (regulated current).

The use of shield cables is recommended for the electronic connections.



Disposal of Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs)

This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product, please contact your local city office, waste disposal service or the retail

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