T201DCH50-M T201DCH100-M T201DCH300-M

AC/DC TRUE RMS or DC BIPOLAR CURRENT TRANSDUCER
WITH RS485 PORT AND MODBUS RTU PROTOCOL



CE





T201DCH50-M



T201DCH100-M







SENECA s.r.l. Via Austria. 26 – 35127 – PADOVA – ITALY T201DCH300-M

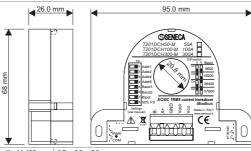
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Manuals and configuration software are available at website: www.seneca.it/products/t201dch50-m or

www.seneca.it/products/t201dch100-m or www.seneca.it/products/t201dch300-m

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MODULE LAYOUT



Dimensions (L×H×W)	95 x 68 x 26 mm
Weight	120 g.
Case	Material PA6, Black color.
Mounting	Free-standing or on IEC EN60715 DIN rail with 2 accessories included.

LED SIGNALLING ON FRONT PANEL								
LED	State	LEDs Meaning						
PWR COM (Green)	On/Off	Power supply presence / The device is powered off						
PWR COM (Green)	Blinking	Communication presence on RS485 port.						

STANDARDS	EN61000-6-4 Electromagnetic emission, industrial environment EN61000-6-2 Electromagnetic immunity, industrial environment EN61010-1 Safety				
INSULATION	When a sheathed wire is used, the insulation voltage is set by sheath properties. On a bare wire, it's stated to 3 kV~.				
ENVIRONMENTAL CONDITIONS	B				
Temperature	-20°C – +70°C.				
Humidity	10% – 90% not condensing.				
Altitude	Up to 2000 m a.s.l				
Storage temperature	-40°C – +85°C.				
Protection degree	IP20.				
CONNECTIONS	Removable 5-way screw terminals, 5,08 mm pitch, for cables up to 2.5 mm². Through hole 20.8 mm (0.8 lnch) diameter.				
COMMUNICATION PORT	RS485 serial port on screw terminals A+ and B				

TECHNICAL SPECIFICATIONS

POWER SUPPLY	On screw terminals Vcc and GND.	
Tension	11.5 – 28 V .	
Power absorbed	21 mA (without load).	
INPUT	On through hole 20.8 mm diameter.	•
Type of measure	AC/DC True RMS or Bipolar DC	
Peak factor	2	
Pass-band	1 kHz	
Over-current	2000 A impulsive, 300 A continuous	i.
Current-carrying capacity	AC/DC True RMS (DIP7=OFF)	DC Bipolar (DIP7=ON)
T201DCH50-M	0 – 25A or 0 – 50A	- 25 – +25A or - 50 – + 50A
T201DCH100-M	0 - 50A or 0 - 100A	- 50 – +50A or -100 – +100A
T201DCH300-M	0 – 150A or 0 – 300A	-150 – +150A or -300 – +300A
OUTPUT	On screw terminals Vout and GND.	
Type	0 - 10 V = , Minimum load R = 2 kΩ	Σ.
Duntantinua	LOAD	

Protections
Resolution
Reversal polarity protection and over-voltage protection 13 bit (10000 points)

0.5%
200 ppm/°C

RMS: with 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms.
Bipolar: with 'Fast' filter 78 ms, with 'Slow' filter 650 ms.

Туре	Precision Under 2% of full-scale	Precision Over 2% of full-scale			
T201DCH50-M					
T201DCH100-M	1% of full-scale at 50/60Hz. 23°C	0.5% of full-scale at 50/60Hz, 23°C			
T201DCH300-M	at 30/00112, 23 G	at 30/00112, 23 G			
OVER-VOLTAGE CATEGORY	Bare conductor Insulated conductor	CAT. III 300 V CAT. III 600 V			

PRELIMINARY WARNINGS



Before performing any operation is mandatory to read the full contents of this manual. The module may only be used by qualified and skilled technicians in the field of electric installation. Specific documentation is available on the site on the product page



Only the Manufacturer is authorized to repair the module or to replace damaged parts. The product is susceptible to electrostatic discharge, take appropriate countermeasures during any operation.



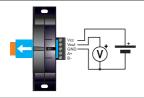
No warranty is granted in connection with faults resulting from improper use, from modifications or repairs carried out by Manufacturer-unauthorized personnel on the device, or if the content of this user Manual is not followed.

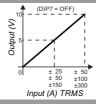
PRELIMINARY WARNINGS

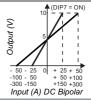


Disposal of electrical & electronic equipment (applicable throughout the EU and other countries with separate collection programs). The symbol found on this product or on its packaging, indicates that this product it must be handed over to an authorised collection point for the recycling of electrical and electronic equipments.

ELECTRICAL CONNECTIONS

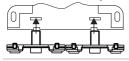






MOUNTING

2 accessories, included, for DIN rail mounting



The device can be located in any position and place, in accordance with the operating conditions above stated. Use the included hooking bracket t when fixing to a DIN rail.

WARNING: High-strength magnetic fields may change the output value: let avoid closeness to permanent magnets, electromagnets or iron bulks that cause such a modification of the surrounding magnetic field; try a different arrangement or orientation if zero error was greater than expected.

CONFIGURATIONS

SOM ISSUATIONS													
	S	W		A -1 -1		w	D1 D-4-	sw			0		
1	2	3	4	Address	5	6	Baud Rate	7	Type of measure	8	Sca	le of me	asure
1				#1			9600		AC/DC True RMS			Full scal	le
	1			#2	1		19200	1	DC Bipolar	1		Half sca	le
1	1			#3		1	38400 DIP-switches must be set with the				KEY	/	
1		1	1	#13	1	1	57600		er supply NOT connecte avoid module damaging.			NE	
	1	1	1	#14					ry configured for the ran			ON	₽♠
1	1	1	1	#15					100) and 300A (DCH300), C True RMS type of meas			0.1	_ ·
	Α	ll s	wito	h OFF = par	am	ete	rs from Flash n	nemo	rv. See User Manual.			OFF	₽↓

CONTACTS

To also in all accounts	0	Due do et le fe me ette e e	
Technical support	Support@seneca.it	Product Informations	sales@seneca.it