## **INSTALLATION MANUAL**

# T201DCH600-MU

AC/DC true RMS or bipolar DC current transducer with ModBus RTU protocol and analogue/digital output

EN







**DOCUMENTATION** 



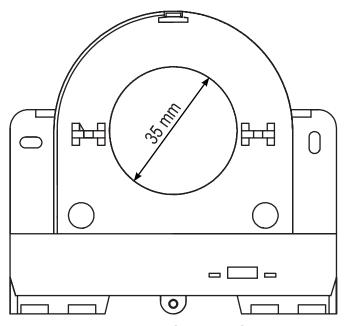


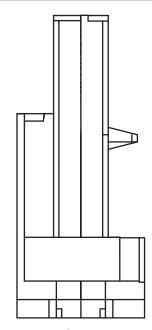
SENECA s.r.l.

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For manuals in other languages and the configuration software, visit www.seneca.it/products/t201dch600-mu

MI00559-2-EN 1/4

#### MODULE LAYOUT





Dimensions LxHxD: 95 x 75 x 35 mm; Weight: ≈ 150 g; Enclosure: PA6, black

#### SIGNALS VIA LED ON FRONT PANEL

LED	STATUS LED meaning		
PWR/COM Green	PWR/COM Green ON The device is powered correctly		
PWR/COM Green Flashing		Communication via USB port	
D-OUT Yellow	ON	ON Digital output activated	

### PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol  $\triangle$  indicates conditions or actions that put the user's safety at risk. The word **ATTENTION** preceded by the symbol  $\triangle$  indicates conditions or actions that might damage the instrument or the connected equipment. The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.



**WARNING**: The full content of this manual must be read before any operation. The module must only be used by qualified electricians. Specific documentation is available via QR-CODE shown on page 1.



The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation.



Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste.

#### **ASSEMBLY**

The device can be mounted in any position, in compliance with the expected environmental conditions. Use the accessories supplied for fixing on a DIN rail.

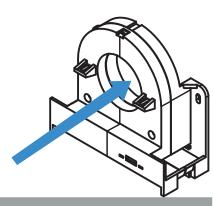
**Attention:** magnetic fields of considerable magnitude can alter the measurement: avoid proximity to permanent magnetic fields, solenoids or ferrous masses which induce strong alterations of the magnetic field; possibly, if the zero error is greater than the declared error, try a different arrangement or change orientation.



## ⚠ ATTENTION

Please, install the module as shown in the figure. Pay attention to the direction of the current flow.

To increase the current measurement sensitivity, insert the cable several times into the central hole of the instrument, creating a series of coils. The current measurement sensitivity is proportional to the number of turns



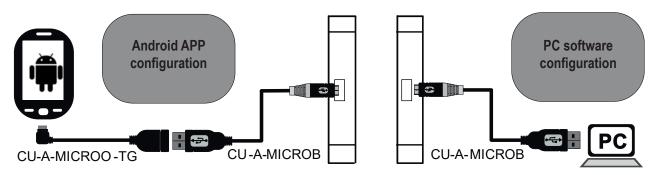
STANDARDS						
INSULATION  INSULATION  INSULATION  INSULATION  An insulation of 3 kVac is guaranteed on bare conductors  Temperature:  -25 → 70 °C  Humidity:  Altitude:  Degree of protection:  IP20.  ASSEMBLY  Assembly as minimum limit in the selected via software  Temperature:  -40 → 85°C  Degree of protection:  IP20.  ASSEMBLY  CONNECTIONS  Removable 6-way screw terminals, 5 mm pitch for cable up to 2.5 mm² micro USB (CONFIGURATION ONLY)  Voltage: on Voc and GND terminals, 11.5 − 28 Vdc; Absorption: Typical: 21 mA (LOAD EXCLUDED)  COMMUNICATION PORT  INPUT  Type of measurement:  ACIDC TRMS or DC Bipolar  Crest factor:  Pass-band:  1 kHz Overload:  2000 A impulsive, 3 x IN continuing  CAPACITY  ACIDC True RMS (DIP7−OFF)  Type:  0 − 300A or 0 − 600A  Type:  0 − 10 Vdc, minimum load R <sub>Load</sub> − 2 kΩ.  Protection:  Resolution:  13 bit (10000 points)  EMI error:  C. 0.5%  Temperature:  1/pe: and in the selected via software  The type of output can be selected via software  The type of output can be selected via software  Tot Dot and GND terminals  The type of output can be selected via software  Tot Dot CRT. III 300 V	TECHNICA	L SPECIFICATIONS				
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OVERVOLTAGE Bare conductor: CAT. III 300 V	ACCURACY	below 2% of full scale	above 2% of full scale			
	T201DCH600-MU	1% of full scale at 50/60 Hz, 23°C	0.5% of full scale at 50/60 Hz, 23°C			
CATEGORIES Insulated conductor: CAT. III 600 V	OVERVOLTAGE	Bare conductor: CAT. III 300 V				
	CATEGORIES	Insulated conductor: CAT. III 600 V				

#### USB PORT

The module is designed to exchange data according to the modes defined by the MODBUS protocol. It has a micro USB connector on the front panel and can be configured using applications and/or software programs.

The USB serial port uses the following communication parameters: 38400,8,N,1

The USB communication port responds exactly like the serial ports, with the exception of the communication parameters. For more information, visit the site shown on page 1.



Check that the device in question is included in the list of products supported by the Easy Setup APP in the store.

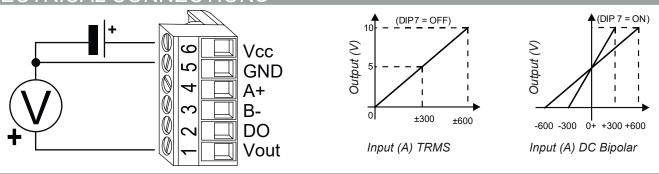
#### SETTING THE DIP-SWITCHES

The position of the DIP-switches defines the Modbus communication parameters of the module: Address and Baud Rate. The following table shows the values of the Baud Rate and the Address according to the setting of the DIP-switches:

DIP-Switch status									
POSITION	4000500	POSITION	BAUD POSITION 7	BAUD PO	POSITION	TYPE OF	POSITION	MEASURING	
1 2 3 4	ADDRESS	5 6		7	MEASUREMENT	8	SCALES		
	#1		9600		AC/DC true RMS		Full scale		
	#2		19200		DC Bipolar		Half scale		
	#3		38400	DIP-switches must be set while the module is not			=v		
• • • • •	#		57600	powered on in order to avoid damaging it.					
	The instrument is supplied configured for 600 A (DCH600), with 800 ms filter					ON			
	#15	inserted and TRMS mode selected.							
All dip-switches set to OFF: parameters from flash memory. See the USER manual									

**Note:** When DIP switches 3 to 8 are OFF, the communication settings are taken from programming (EEPROM).

#### FLECTRICAL CONNECTIONS



$\bigcirc$		MATION
	1121	

Technical support	support@seneca.it	Product information	sales@seneca.it		

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