INSTALLATION MANUAL

T201DCH600-MU

PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol indicates conditions or actions that put the user's safety at risk. The word **ATTENTION** preceded by the symbol indicates conditions or actions that could damage the instrument or 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 using the 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.



DOCUMENTATION





1/4

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CONTACT INFORMATION

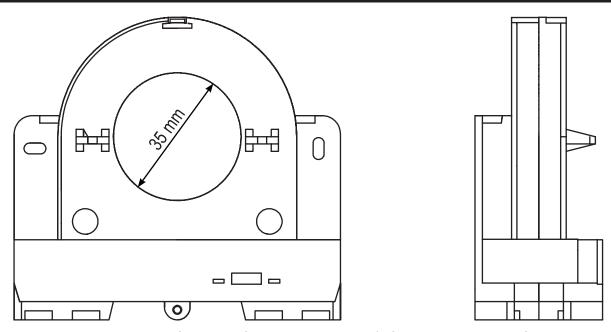
Technical support	supporto@seneca.it	Product information	commerciale@seneca.it
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The content of this document corresponds to the described products and technologies.

Stated data may be modified or supplemented for technical and/or sales purposes.

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

ASSEMBLY

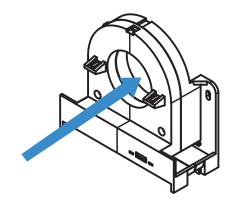
The device can be mounted in any position, in compliance with the expected environmental conditions. Use the accessories supplied for fixing on a DIN rail.

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



TECHNICAL SPECIFICATIONS

CERTIFICATIONS	CE CA				
INSULATION	Using an insulated conductor, its sheath determines the insulation voltage. An insulation of 3 kVac is guaranteed on bare conductors				
ENVIRONMENTAL CONDITIONS	Temperature: $-25 - + 70^{\circ}$ Humidity: $10\% - 90\%$ Altitude:Up to 2000Up to 3500Storage temperature: $-40 - + 85^{\circ}$ Degree of protection:IP20.	°C non condensing. m above sea level with bare conductor m above sea level with insulated conductor C			
ASSEMBLY	35mm DIN rail IEC EN60715, wall mounted with dowels, suspended with ties				
CONNECTIONS	Removable 6-way screw terminals, 5 mm pitch for cable up to 2.5 mm ² micro USB (CONFIGURATION ONLY)				
POWER SUPPLY	Voltage: on Vcc and GND terminals, 11.5 – 28 Vdc; Absorption: Typical: 21 mA (LOAD EXCLUDED)				
COMMUNICATION PORT	RS485 serial port on terminals A+ and B-				
INPUT	Type of measurement: AC/DC TRMS or DC Bipolar Crest factor: 2 Pass-band: 1 kHz Overload: 2000 A impulsive, 3 x ln continuing				
CAPACITY	AC/DC True RMS (DIP7=OFF)	DC Bipolar (DIP7=ON)			
T201DCH600-MU	0 – 300A or 0 - 600A	-300 — +300A or -600 - +600A			
ANALOGUE	Type: $0-10 \text{ Vdc}$, minimum load $R_{LOAD}=2 \text{ k}\Omega$.Protection:Reverse polarity protection and over voltage protectionResolution: $13 \text{ bit } (10000 \text{ points})$ EMI error: $< 0.5\%$ Temperature coefficient: $< 200 \text{ ppm/°C}$ Hysteresis on measurement: 0.2% of full scaleResponse speed:RMS: with 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms.Bipolar: with 'Fast' filter 78 ms, with 'Slow' filter 650 ms.The type of output can be selected via software				
OUTPUT on Vout and GND terminals	Temperature coefficient: < 200 pp Hysteresis on measurement: 0.2% of f Response speed: RMS: wit Bipolar: v	full scale th 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms. with 'Fast' filter 78 ms, with 'Slow' filter 650 ms.			
OUTPUT on Vout and	Temperature coefficient: < 200 pp Hysteresis on measurement: 0.2% of f Response speed: RMS: wit Bipolar: v	full scale th 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms. with 'Fast' filter 78 ms, with 'Slow' filter 650 ms. oftware) mA			
OUTPUT on Vout and GND terminals DIGITAL OUTPUT on DO and GND	Temperature coefficient: < 200 pp Hysteresis on measurement: 0.2% of f Response speed: RMS: wit Bipolar: v The type of output can be selected via selected. Type: active, 0 – Vcc, maximum load 50	full scale th 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms. with 'Fast' filter 78 ms, with 'Slow' filter 650 ms. oftware) mA			
OUTPUT on Vout and GND terminals DIGITAL OUTPUT on DO and GND terminals	Temperature coefficient: < 200 pp Hysteresis on measurement: 0.2% of f Response speed: RMS: wit Bipolar: v The type of output can be selected via selected. Type: active, 0 – Vcc, maximum load 50 The type of output can be selected via selected.	full scale th 'Fast' filter 1400 ms, with 'Slow' filter 2900 ms. with 'Fast' filter 78 ms, with 'Slow' filter 650 ms. oftware oftware above 2% of full scale			

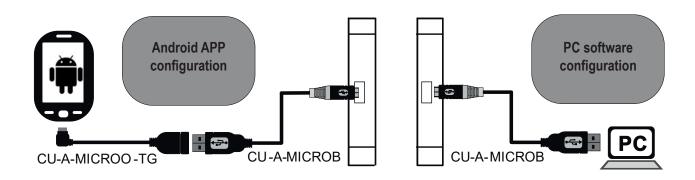
3/4

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	ADDDEGG	POSITION	BAUD POSITION 7	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.				- 1
	#14	The instrument is supplied configured for 600 A (DCH600), with 800 ms filter inserted and TRMS mode selected. ON OFF						
	#15						OFF	
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).

ELECTRICAL CONNECTIONS

