

Logicbus Convert AC/DC Current to RS485 Modbus Installation Guide

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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 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



DOCUMENTATION-T203PM100-MU



DOCUMENTATION T203PM300-MU



DOCUMENTATION T203PM600-MU

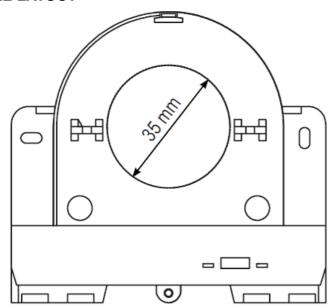
- The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation
- Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling).
 The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste

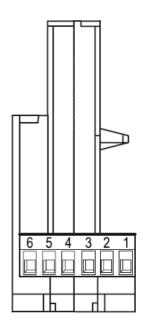
CONTACT INFORMATION

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

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MODULE LAYOUT





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

SIGNALS VIA LED ON FRONT PANEL

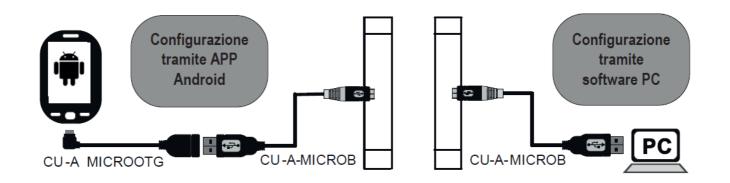
LED	STATUS	LED meaning	
PWR/COM Green	ON	The device is powered correctly	
PWR/COM Green	Flashing	Communication via RS485 port	
D-OUT Yellow	ON	Digital output activated	

ASSEMBLY

The device can be mounted in any position, in compliance with the expected environmental conditions. 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.

USB PORT

The front USB port allows easy connection to configure the device using the configuration software. If it is necessary to restore the initial configuration of the instrument, use the configuration software. Through the USB port it is possible to update the firmware (for further information please refer to the Easy Setup 2 software).



TECHNICAL SPECIFICATIONS

STANDARDS	EN61000-6-4 Electromagnetic emissions, industrial environment. EN61000-6-2 Electromagn etic immunity, industrial environment. EN61010-1 Safety.			
INSULATION	Using an insulated conductor, its sheath determines the insulation voltage. An insulation of 3 kVac is guaranteed on bare conductors.			
	Temperature:	-25 ÷ +65 °C		
ENVIRONMEN	Humidity:	10% ÷ 90% non condensing.		
	Altitude:	Up to 2000 m above sea level		
TAL CONDITIO NS	Storage temperature:	-30 ÷ +85°C		
	Degree of protection:	IP20.		
ASSEMBLY	35mm DIN rail IEC EN60715, suspended with ties			
CONNECTION	Removable 6-way screw terminals, 5 mm pitch for cable up to 2.5 mm2 micro USB			
POWER SUPP LY	Voltage: on Vcc and GND terminals, 11 ÷ 28 Vdc; Absorption: Typical: < 70 mA @ 24 Vdc			
COMMUNICATI ON PORT	RS485 serial port on terminal block with ModBUS protocol (see user manual)			
	Type of measurement: AC/DC TRMS or DC Bipolar Live: 1000Vdc; 290Vac			
	Crest factor: 100A = 1.7; 300A = 1.9; 600A = 1.9			
INPUT	Pass-band: 1.4 kHz			
	Overload: 3 x IN continuous			
CAPACITY	AC/DC True RMS		TRMS DC Bipolar (DIP7=ON)	
T203PM600-M U	0 - 600A / 0 - 290Vac		-600 - +600A / 0 - +1000Vdc	
T203PM300-M U	0 – 300A / 0 – 290Vac		-300 - +300A / 0 - +1000Vdc	
T203PM100-M U	0 – 100A / 0 – 290Vac		-100 - +100A / 0 - +1000Vdc	

	Туре:	0 – 10 Vdc, min	imum load RLOAD =2 kΩ.	
ANALOGUE O UTPUT	Protection: Reverse polarit		y protection and over voltage protection	
	Resolution:	13.5 full scale	AC	
	EMI error:	< 1 %		
	The type of output can be selected via software			
DIGITAL OUTP	Type: active, 0 – Vcc, maximum load 50mA			
UT	The type of output can be selected via software			
	below 5% of full scale		1% of full scale at 50/60 Hz, 23°C	
	above 5% of full scale		0,5% of full scale at 50/60 Hz, 23°C	
	Coeffic. Temperature: < 200 ppm/°C			
ACCURACY	Hysteresis on measurement: 0.3% of full scale			
	Response speed:	500 ms (DC);	1 s (AC) al 99,5%	
OVERVOLTAG	Bare conductor: CAT. III 600V			
E CATEGORIE S	Insulated conductor:CAT. III 1kV			

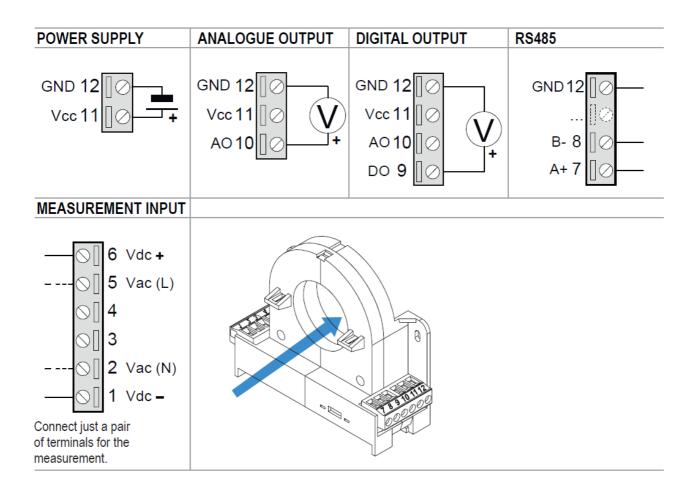
ELECTRICAL CONNECTIONS

WARNING Disconnect the high voltage before carrying out any work on the instrument.

CAUTION

Switch off the module before connecting the inputs and outputs. To meet electromagnetic immunity requirements:

- use properly insulated and dimensioned cables;
- use shielded cables for signals;
- connect the shield to a preferred instrumentation ground;
- Keep shielded cables away from other cables used for power installations (transformers, inverters, motors, etc.).



CAUTION

- Make sure that the direction of the current flowing through the cable is that shown in the figure (incoming).
- To increase the sensitivity of the current measurement, insert the cable several times into the central hole of the instrument, creating a series of loops.
- The current measurement sensitivity is proportional to the number of cable passages through the hole.

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Documents / Resources



Logicbus Convert AC/DC Current to RS485 Modbus [pdf] Installation Guide T203PM100-MU, T203PM300-MU, T203PM600-MU, Convert AC DC Current to RS485 Modbu s, Convert AC to DC Current to RS485 Modbus, Current to RS485 Modbus, Current Modbus, R S485 Modbus, Modbus, RS485

Manuals+,