INSTALLATION MANUAL

Z201

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 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
Z201

SENECA

QUALITY MANAGEMENT SYSTEM
ISO 9001:2015

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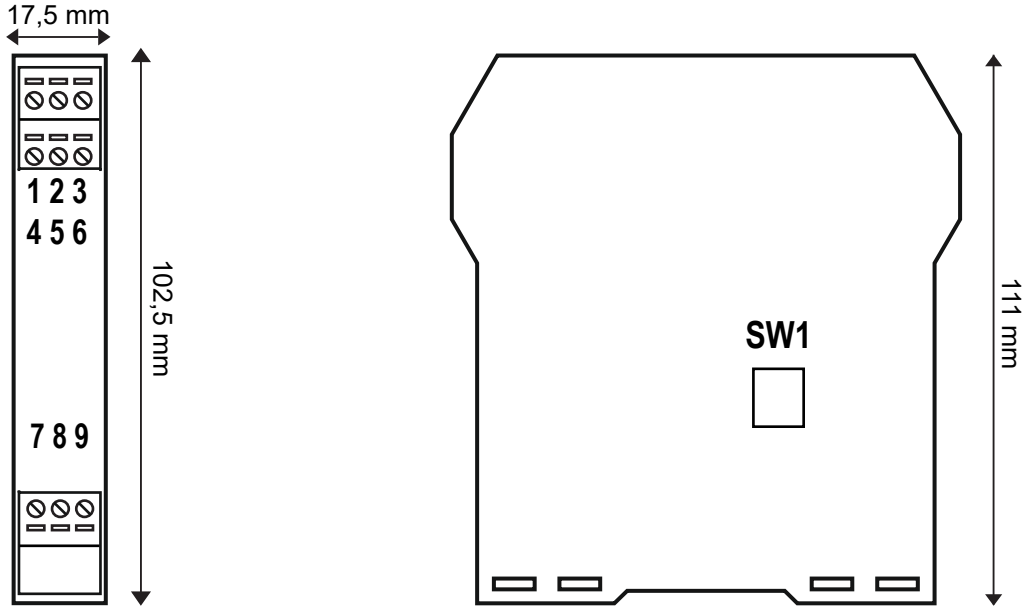
CONTACT INFORMATION

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

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MODULE LAYOUT

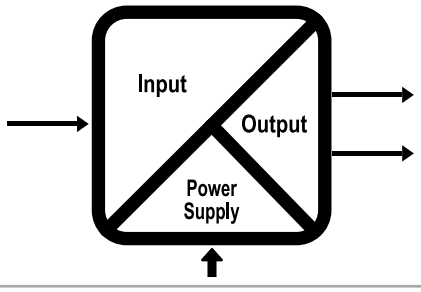


Dimensions LxHxD: 17.5 x 102.5 x 111 mm; **Weight:** 110 g; **Enclosure:** PA6, black

SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning
PWR	On	Device powered
	Off	Device not powered

TECHNICAL SPECIFICATIONS

CERTIFICATIONS	CE UKCA
INSULATION	 3750 Vac
POWER SUPPLY	Voltage: 19 ÷ 40 Vdc; 19 ÷ 28 Vac 50 ÷ 60 Hz, max.: 2.5W
INPUT	Current: 0 ÷ 5 Aac or 0 ÷ 10 Aac settable by terminal panel. Insulation 3700 Vac.
OUTPUT	Current 0 ÷ 20 mA or 4 ÷ 20 mA, maximum load 600 Ohm; Voltage 0 ÷ 10 Vdc or 0 ÷ 5 Vdc, 2 ÷ 10 Vdc or 1 ÷ 5 Vdc. Minimum load 2500 Ohm. Output limited to 125% in the event of overload.
ENVIRONMENTAL CONDITIONS	Operating temperature: from -25°C to +70°C Humidity: 10% ÷ 90% non condensing. Storage temperature: from -30°C to +85°C Protection rating: IP20

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RESPONSE TIME	< 200 ms
PERMISSIBLE OVERLOAD	12A continuative, 30A for 1 s.
POWER SUPPLY/OUTPUT PROTECTION	against impulse voltage overload 400W/ms.
INSTALLATION CLASS	III, it can be applied on a three-phase network of up to 500 Vac phase-phase, 300Vac phase-ground.

ERRORS REGARD FIELD OF INPUT MEASUREMENT AND WITH INPUT > 10% OF THE SCALE.				
Frequency band	**Calibration error**	**Thermal coefficient**	**Linearity error**	**Other**
20 ÷ 400Hz sinus.	0.3%	0.02%/°C	0.1%	1% max for EMC
400 ÷ 1000Hz sinus.	0.5%	0.02%/°C	0.2%	1% max for EMC

SETTING THE DIP-SWITCHES

On the side of the module there are dip switches that can be used to select the desired functions. To select these functions, set the DIP switches as shown in the tables:

SW1 DIP-SWITCH SETTINGS			
DIP 1		**DIP2**	
ON	4..20mA / 1..5V / 2..10V	**ON**	0..10V / 2..10V
OFF	0..20mA / 0..5V / 0..10V	**OFF**	0..5V / 1..5V

INSTALLATION REGULATIONS

The module has been designed for vertical installation on a DIN 46277 rail. For optimal operation and long life, adequate ventilation must be provided. Avoid positioning ducting or other objects that obstruct the ventilation slots. Avoid mounting modules over heat-generating equipment. Installation in the bottom part of the electrical panel is recommended.

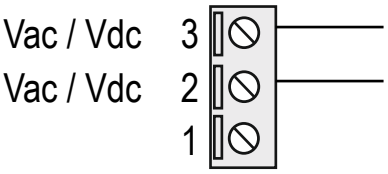
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ELECTRICAL CONNECTIONS

⚠ CAUTION

Switch the module off before connecting inputs and outputs.
To meet the electromagnetic immunity requirements:
- use shielded signal cables;
- connect the shield to a preferential instrumentation earth system;
- separate shielded cables from other cables used for power installations (transformers, inverters, motors, etc...).

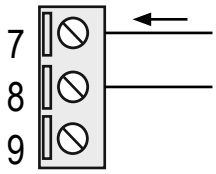
POWER SUPPLY



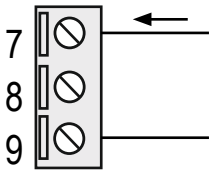
The upper power supply limits must not be exceeded, as this might cause serious damage to the module.
The power supply source must be protected from any failures in the module by means of a suitably sized fuse.

INPUT

Input for In < 10A



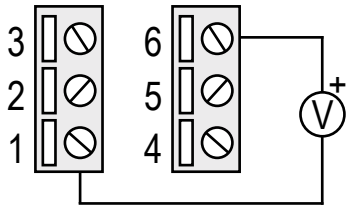
Input for In < 5A



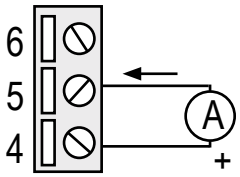
When connected to a T.A. one of the wires must be grounded.

OUTPUT

Voltage



Applied current



External power supply current

