

DAT 2105 2W

Fixed range transmitter for potentiometer input

FEATURES

- Fixed range input for Potentiometer up to 50 kΩ
- 4 ÷ 20 mA loop powered output
- High accuracy
- Burn-out Alarm
- Potentiometers for the adjustment of the output signal (Option -POT)
- CE mark
- Suitable for DIN rail mounting in compliance with EN-50022 and EN50035



GENERAL DESCRIPTION

The DAT2105 2W transmitter is able to convert a voltage signal coming from a potentiometer connected to its input.

The measured values are transmitted on the 4 ÷ 20 mA current loop.

The device guarantees high precision and a very stable measurement both over time and in temperature.

It is also available the option of sensor interrupted alarm with setting of the output value as high over range or low over range to be requested when ordering. If not specified in the order, the sensor interrupted alarm will be set as high overrange (high break).

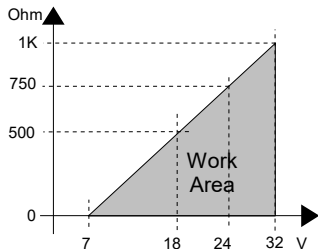
When ordering, the "- POT" option is available: if requested, the device is supplied with potentiometers on the front side for adjusting the output signal to be used in the event that a manual adjustment of the signal itself is required in the system.

The device is housed in a 12.5 mm thick plastic case suitable for mounting on a DIN rail compliant with EN-50022 and EN-50035 standards.

USER INSTRUCTIONS

The power supply / output and input connections must be made according to the "Connections" section.

TECHNICAL SPECIFICATIONS (Typical at 25 °C and in nominal conditions)

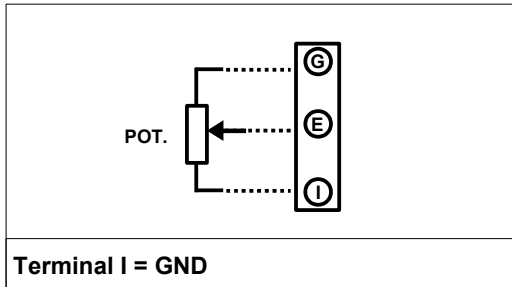
INPUT			OUTPUT			GENERAL SPECIFICATION	
Input Type	Min	Max	Output Type	Min	Max		
Potentiometer (nominal value < 50 KΩ)	0 %	100 %	Current	4 mA	20 mA	Supply Voltage	7 .. 32 Vdc
Input Accuracy Potentiometer	± 0,05 % f.s.		Output Resolution Current	± 7 uA		Reverse polarity protection	60 Vcc max
Thermal Drift Full Scale	± 0,01% / °C		Burn-out values Max. output value Min. output value	21.7 mA 2.2 mA		ENVIRONMENTAL CONDITIONS Operative Temperature -20°C .. +70°C Storage Temperature -40°C.. +85°C Humidity (not condensed) 0 .. 90 % Maximum Altitude 2000 m Installation Indoor Category of installation II Pollution Degree 2	
			Response Time (10÷ 90%)	about 220 ms		MECHANICAL SPECIFICATIONS Material Self-extinguish plastic IP Code IP20 Wiring wires with diameter 0.8÷2.1 mm ² /AWG 14-18 Tightening Torque 0.8 N m Mounting in compliance with DIN rail standard EN-50022 and EN-50035 Weight about 90 g.	
			Potentiometer Adjustment (Option "- POT") Zero ± 5 % Span ± 5 %			CERTIFICATIONS EMC (for industrial environments) Immunity EN 61000-6-2 Emission EN 61000-6-4	
			Load characteristic - Rload 				

INSTALLATION INSTRUCTIONS

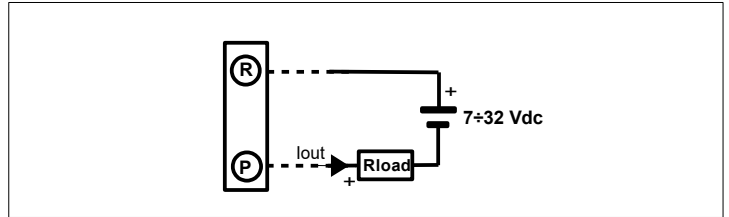
The device is suitable for mounting on a DIN rail in a vertical position.
The device must be installed in a place that is not subject to vibrations.
It is also recommended not to route the wiring near power signal cables.

WIRING

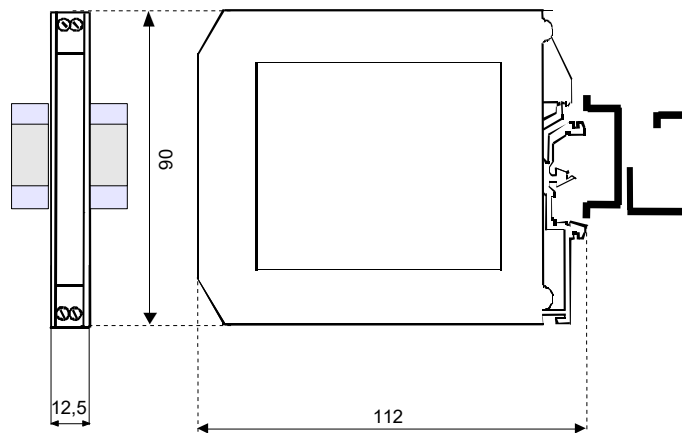
INPUT CONNECTION



OUTPUT / POWER SUPPLY CONNECTION



DIMENSIONS (mm)



The symbol reported on the product indicates that the product itself must not be considered as a domestic waste. It must be brought to the authorized recycle plant for the recycling of electrical and electronic waste. For more information contact the proper office in the user's city, the service for the waste treatment or the supplier from which the product has been purchased.

HOW TO ORDER

The device is provided as requested on the Customer's order.

ORDER CODE EXAMPLE:

DAT2105 2W / High / - POT

Option Potentiometers for output adjustment

High / Low Out of scale