

RW1070-B

Programmable 2-wire
temperature transmitter
2-wire Pt100 input
4-20 mA output



► Specific features

- compatible with all types of 2-wire Pt100 sensors
- excellent measurement stability
- 4-20 mA output with galvanic isolation
- rugged
- lightweight and compact
- electrical connection by cable

► Description

Adaptable for all types of 2-wire Pt100 sensors qualified for a temperature range from -40°C to +250°C, the RW1070-B programmable transmitter can be used to convert the temperatures measured into a 4-20 mA linear signal.

Protected in a casing designed for wall mounting, this transmitter can be connected to the sensor very quickly with a cable.

Lightweight and compact, it is ideal for applications in confined spaces.

This high-performance, versatile instrument also offers excellent stability over time.

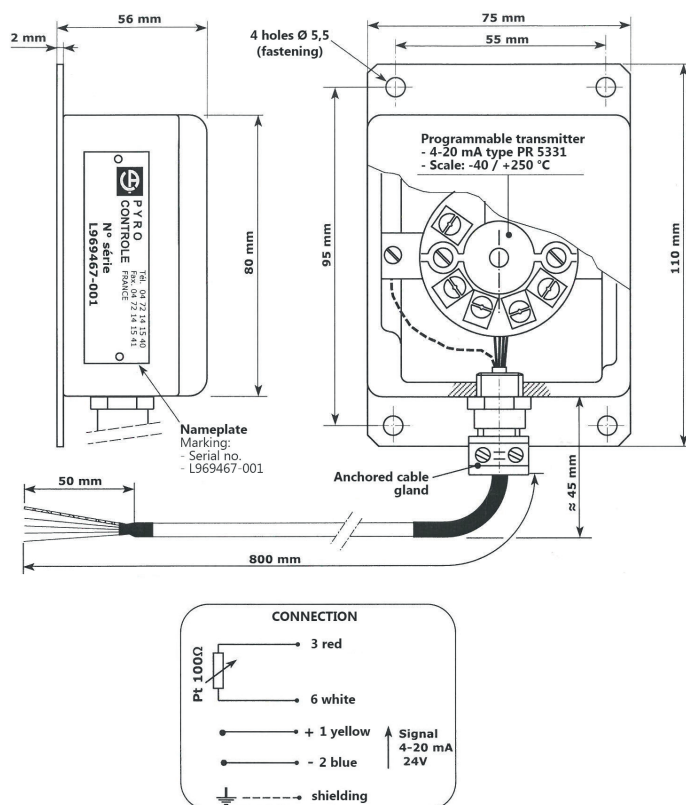


► RW1070-B Technical Specifications

Transmitter	Input	1 x Pt100*
	Output	4-20 mA linearized, -40°C/+250°C
	Measurement scale (MS) configured on measurement input	-40°C to +250°C
	Operating temperature	-25°C to +70°C
	Storage temperature	-40°C to +80°C (packaging)
	Power supply in the current loop	8.0 to 35 Vcc
	Maximum load resistance	$\leq (V_{\text{supply}} - 7) / 0.02$
	Probe breakage signal	23 mA
	Linearity error	< 0.1% of MS
	Influence of ambient temperature / 25°C	+/- 0.01% of MS/°C
	Error according to supply voltage	> 0.005% of MS/V
	Galvanic isolation - dielectric tests	1,500 Vrms, 50 Hz 60 s 3 mA max.
	Casing	Material
Total weight		480 g
Ingress protection (IEC529)		IP65
Cable	Type	Cable with 4 x 0.93 mm ² copper conductors with copper shielding braid
	Insulation	PVC
	Diameter	8 mm
	Connection	Bare wires + shielding-braid wires
	Length	800 mm
Mounting plate	Material	Stainless steel
	Dimensions (HxLxW)	110x75x2 (mm)

*Sensor not supplied

► Drawing



► Standards and qualification

- Rail standards:
NF EN 60751 ; EN50155 §10.2.11.2 ; IEC 61373 §9 ;
EN50155 § 10.2.11.3. IEC 61373 § 10 ; IEC 68-2-27 ;
EN50155 § 10.2.5 ; IEC 68-2-30 ; EN50155 § 10.2.3 ;
EN60068-2-1 ; EN 50 081-1 & EN 50 081-2 ;
NF F 16-101, NF F 16-102
- Qualification:
Alstom Transport as per TGLS 409 784 000/A ;
DTR38980666

► To order

Description	Reference
RW1070-B Programmable 2-wire temperature transmitter with 2-wire input and 4-20 mA output	LC969467 -001

► Other specifications

Specific product made to specifications: please contact us.

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