

Product datasheet

Specifications



temperature transmitter - 0..500 °C/32..932 °F - for Optimum Pt100 probes

Local distributor code:
387098434

RMPT73BD

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3389110109016

Main

Range Of Product	Harmony Analog
Product Or Component Type	Converter for Optimum Pt100 probes
Analogue Input Type	Temperature probe 0...500 °C/32...932 °F Pt 100 2, 3 or 4 wires
Analogue Output Type	Current 4...20 mA <= 500 Ohm Voltage 0...10 V >= 100 kOhm

Complementary

Protection Type	Overvoltage protection on output (+/- 30 V) Reverse polarity protection on power supply Short-circuit protection on output Reverse polarity protection on output
Abnormal Analogue Output Voltage	-15...-11 V when no input or input wire broken 11...15 V when no input or input wire broken
Abnormal Analogue Output Current	-30...0 mA when no input or input wire broken 22...30 mA when no input or input wire broken
[Us] Rated Supply Voltage	24 V DC non isolated +/- 20 %
Current Consumption	<= 40 mA for voltage output <= 60 mA for current output
Local Signalling	LED (green) for power ON
Measurement Error	+/- 0.5 % of full scale (3 or 4 wires) at 20 °C +/- 1 % of full scale (2 wires) at 20 °C +/- 10 % of full scale at 20 °C (electromagnetic interference of 10 V/m)
Repeat Accuracy	+/- 0.2 % full scale at 20 °C +/- 0.6 % full scale at 60 °C
Temperature Coefficient	150 ppm/°C
Maximum Wiring Resistance	0.2 Ohm connection in 2 wires
Clamping Connection Capacity	2 x 1.5 mm ² 1 x 2.5 mm ²
Tightening Torque	0.6...1.1 N.m
Marking	CE
Surge Withstand	0.5 kV during 1.2/50 µs conforming to IEC 61000-4-5
[Ui] Rated Insulation Voltage	2000 V
Fixing Mode	Clip-on (35 mm symmetrical DIN rail) Fixed (mounting plate)
Safety Reliability Data	MTTFd = 43.9 years B10d = 40564

Net Weight	0.12 kg
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Environment

Electromagnetic Compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
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Standards	DIN 43760 EN/IEC 60584-1 EN/IEC 60947-1 EN/IEC 60751
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Product Certifications	GL UL CSA
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Ip Degree Of Protection	IP20 (terminal block) IP50 (housing)
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Fire Resistance	850 °C conforming to IEC 60695-2-1 850 °C conforming to UL
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Shock Resistance	50 gn for 11 ms conforming to IEC 60068-2-27
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Vibration Resistance	5 gn (f= 10...100 Hz) conforming to IEC 60068-2-6
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Resistance To Fast Transients	1 kV (on input-output) conforming to IEC 61000-4-4 2 kV (on power supply) conforming to IEC 61000-4-4
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Disturbance Radiated/Conducted	CISPR 11 CISPR 22 group 1 - class B
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Ambient Air Temperature For Storage	-40...85 °C
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Ambient Air Temperature For Operation	0...50 °C mounting side by side 0...60 °C 2 cm spacing
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Pollution Degree	2 conforming to IEC 60664-1
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Packing Units

Unit Type Of Package 1	PCE
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Number Of Units In Package 1	1
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Package 1 Height	2.7 cm
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Package 1 Width	8.2 cm
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Package 1 Length	8.5 cm
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Package 1 Weight	109.0 g
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Unit Type Of Package 2	S02
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Number Of Units In Package 2	47
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Package 2 Height	15.0 cm
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Package 2 Width	30.0 cm
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Package 2 Length	40.0 cm
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Package 2 Weight	5.214 kg
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Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

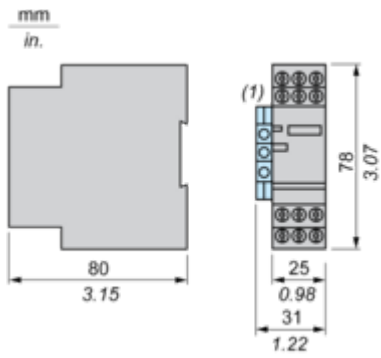
China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

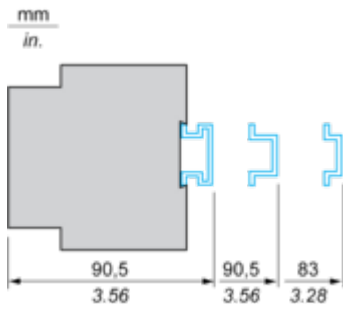
Dimensions



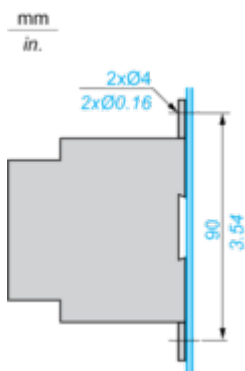
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Mounting

Mounting on Rails AM1•••••

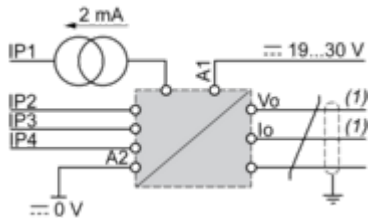


Panel Mounting



Analog Interface: Converter for Optimum Pt100 Probe

Wiring Diagram



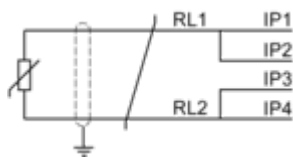
(1) Use 1 output only.

The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference.

The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

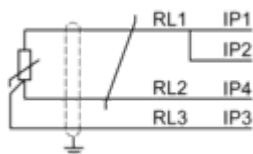
Input Connections

2-wire type



$$RL1 + RL2 \leq 200 \text{ m}\Omega$$

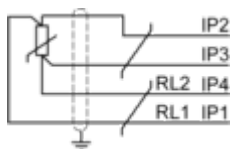
3-wire type



$$RL1 = RL2 = RL3$$

$$RL1 + RL2 \geq 200 \text{ }\Omega$$

4-wire type



$$RL1 + RL2 \leq 200 \text{ }\Omega$$