Product datasheet





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 0500 °C/32932 °F Pt 100 2, 3 or 4 wires
Analogue Output Type	Current 420 mA <= 500 Ohm Voltage 010 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	-1511 V when no input or input wire broken 1115 V when no input or input wire broken
Abnormal Analogue Output Current	-300 mA when no input or input wire broken 2230 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 (temporary performance degradation when subject to electromagnetic interference) +/- 1 % of full scale (2 wires) at 20 °C (temporary performance degradation when subject to electromagnetic interference)
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	0.61.1 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

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
Standards	DIN 43760 IEC 60584-1 IEC 60947-1 IEC 60751
Product Certifications	GL UL CSA
Ip Degree Of Protection	IP20 (terminal block) IP50 (housing)
Fire Resistance	850 °C conforming to IEC 60695-2-1 850 °C conforming to UL
Shock Resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration Resistance	5 gn (f= 10100 Hz) conforming to IEC 60068-2-6
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
Disturbance Radiated/Conducted	CISPR 11 CISPR 22 group 1 - class B
Ambient Air Temperature For Storage	-4085 °C
Ambient Air Temperature For Operation	050 °C mounting side by side 060 °C 2 cm spacing
Pollution Degree	2 conforming to IEC 60664-1

Packing Units

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

Contractual warranty

Warranty 18 months



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

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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

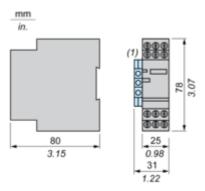
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

RMPT73BD

Dimensions Drawings

Analog Interface (Converter)

Dimensions

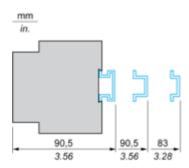


(1) Terminal block AB1TP435U or AB1RRNTP435U2

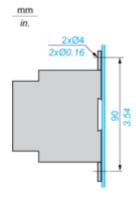
Mounting and Clearance

Mounting

Mounting on Rails AM1 *****



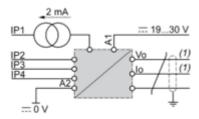
Panel Mounting



Connections and Schema

Analog Interface: Converter for Optimum Pt100 Probe

Wiring Diagram



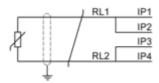
(1) Use 1 output only.

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.

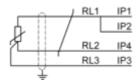
Input Connections

2-wire type



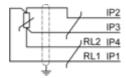
RL1 + RL2 \leq 200 m Ω

3-wire type



RL1 = RL2 = RL3 RL1 + RL2 \geq 200 Ω

4-wire type



RL1 + RL2 \leq 200 Ω