# Product datasheet

Specifications



## temperature transmitter - 0..250 °C/ 32..482 °F - for Universal Pt100 probes

Local distributor code:

387098256 RMPT50BD

Discontinued on: 29 Jun 2026

Discontinued

**EAN Code: 3389110108989**

## Main

| | |
|---|---|
| **Range of product** | Harmony Analog |
| **Product or component type** | Converter for Universal Pt100 probes |
| **Analogue input type** | RTD 0...250 °C/32...482 °F Pt 100 2, 3 or 4 wires |
| **Analogue output type** | Current 0...20 mA<br>Current 4...20 mA<br>Voltage 0...10 V |

## Complementary

| | |
|---|---|
| **Protection type** | Reverse polarity protection on output<br>Short-circuit protection on output<br>Reverse polarity protection on power supply<br>Overvoltage protection on output (+/- 30 V) |
| **abnormal analogue output voltage** | -15...-11 V when no input or input wire broken<br>11...15 V when no input or input wire broken |
| **abnormal analogue output current** | -30…0 mA when no input or input wire broken<br>22…30 mA when no input or input wire broken |
| **Current consumption** | <= 40 mA for voltage output<br><= 60 mA for current output |
| **Local signalling** | LED (green) for power ON |
| **Clamping connection capacity** | 2 x 1.5 mm²<br>1 x 2.5 mm² |
| **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)<br>Fixed (mounting plate) |
| **Safety reliability data** | B10d = 30437<br>MTTFd = 32.9 years |
| **Net weight** | 0.12 kg |
| **Temperature coefficient** | 150 ppm/°C |
| **Measurement error** | +/- 0.5 % of full scale (3 or 4 wires) at 20 °C (temporary performance degradation when subject to electromagnetic interference)<br>+/- 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<br>+/- 0.6 % full scale at 60 °C |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Environment

| | |
|---|---|
| **Electromagnetic compatibility** | Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2<br>Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 |
| **Standards** | IEC 60947-1<br>IEC 60584-1<br>DIN 43760<br>IEC 60751 |
| **Product certifications** | CSA<br>UL<br>GL |
| **IP degree of protection** | IP20 (terminal block)<br>IP50 (housing) |
| **Fire resistance** | 850 °C conforming to IEC 60695-2-1<br>850 °C conforming to UL |
| **Shock resistance** | 50 gn for 11 ms conforming to IEC 60068-2-27 |
| **Vibration resistance** | 5 gn (f= 10…100 Hz) conforming to IEC 60068-2-6 |
| **Resistance to fast transients** | 1 kV (on input-output) conforming to IEC 61000-4-4<br>2 kV (on power supply) conforming to IEC 61000-4-4 |
| **Disturbance radiated/conducted** | CISPR 11<br>CISPR 22 group 1 - class B |
| **Ambient air temperature for storage** | -40…85 °C |
| **Ambient air temperature for operation** | 0…50 °C mounting side by side<br>0…60 °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** | 2.700 cm |
| **Package 1 Width** | 8.200 cm |
| **Package 1 Length** | 8.500 cm |
| **Package 1 Weight** | 109.000 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 47 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 5.416 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | ID |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **23 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **2 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **21 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.1 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **A23b5c8f-6893-4fd3-af99-564158dacf76** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |

## Use Again

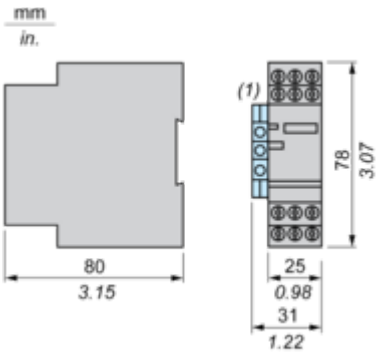
### Repack and remanufacture

| | |
|---|---|
| End of life manual availability | End of Life Information |
| Take-back | **No** |

Dimensions Drawings

## Analog Interface (Converter)

### Dimensions

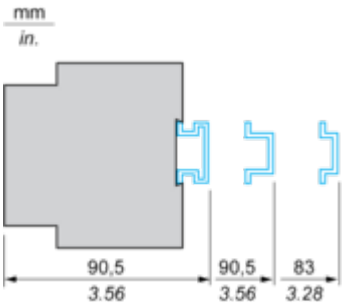



**(1)** Terminal block AB1TP435U or AB1RRNTP435U2

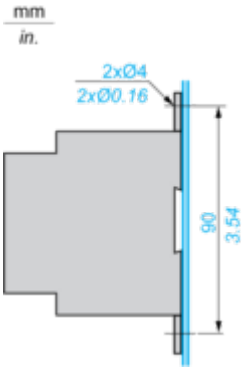
Mounting and Clearance

## Mounting

### Mounting on Rails AM1•••••



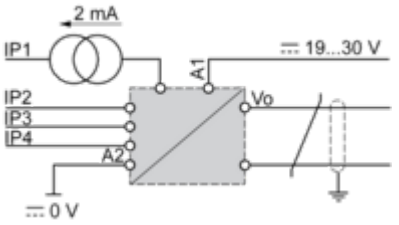

### Panel Mounting



## Connections and Schema

### Analog Interface: Converter for Universal Pt100 Probe

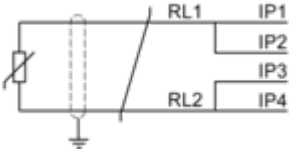
### Wiring Diagram




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.

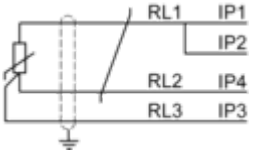
### Input Connections

**2-wire type**



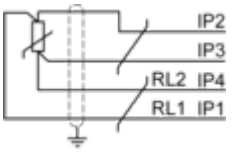

RL1 + RL2 ≤ 200 mΩ

**3-wire type**




RL1 = RL2 = RL3
RL1 + RL2 ≥ 200 Ω

**4-wire type**



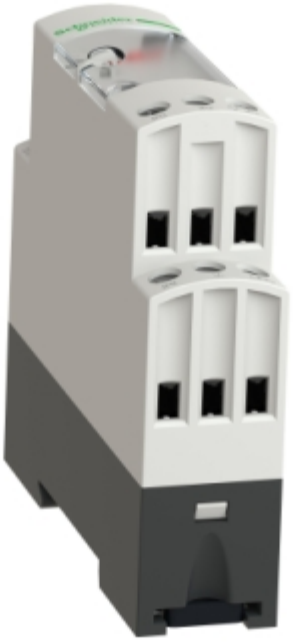

RL1 + RL2 ≤ 200 Ω

Image of product / Alternate images

**Alternative**








A1
A2
Schneider Electric
RM P
IP3
IP2
IP1
OPG



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