

TR01 Series RTD Temperature Sensor

The TR01 series is a RTD temperature sensor which is perfectly suitable for temperature measurements in water temperature, air temperature, refrigeration, and others. The measuring insert is usually fitted with a PT100 and PT1000 temperature sensor as standard.



Features

- For temperatures from -200 to 250 °C
- Two-wire and three-wire circuit available

Applications

- Water temperature
- Air temperature
- Refrigeration

Advantages

- Fast measurements
- Packed in stainless steel sheath
- Compact size

Standards

- DIN EN IEC 60751
- DIN EN 60529
- DIN EN 60068-2-6
- DIN EN 60068-2-27

Name Guide Description

TR01 - XXX - XX - X/X/X - XXXX - X - XXX - X - XXX - X

Series

TR01: RTD temperature probe

RTD insert

100: PT100
1000: PT1000

Insert diameter D in mm

30: Ø 3 mm; 32: Ø 3.2 mm

Lead wire structure (wire/type/shield)

Wire
2: 2 wire circuit; 3: 3 wire circuit
Type
1: PTFE; 2: Silicon
Shield
0: none; 1: included

Lead wire length L2 in mm

1000: 1000
2000: 2000
3000: 3000
Customized

Tolerance class according to DIN EN 60751:2009

1: Class B
2: Class A

Measuring temperature in °C

010: -200 to 100 °C
100: -50 to 100 °C
200: -50 to 200 °C
250: -50 to 250 °C

Lead wire terminal

0: none
1: Crimp terminal
2: Tin-plating
Customized

Insert length L1 in mm

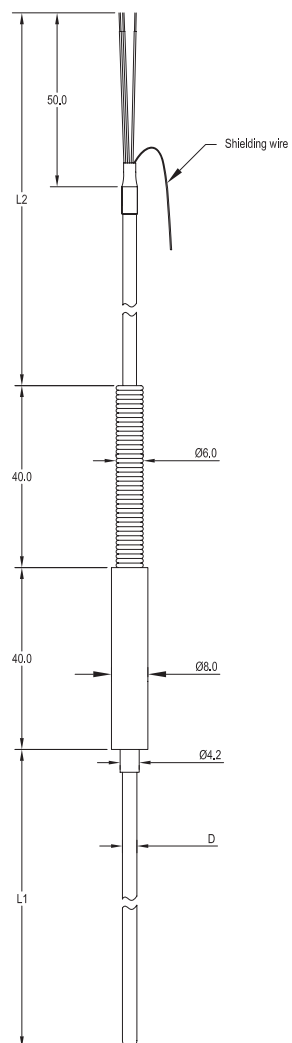
100: 100
200: 200
300: 300
Customized

Extra codes

Notes

The content of this document is subject to revision without notice. Luksens shall have no liability for any error or damage of any kind resulting from the use of this document.

Dimension (mm)



Safety and Environment



The product is to be installed by manufacturer trained personnel or competent person trained in accordance with manufacturer installation instructions.

With respect to applicable standards IEC 61010-1/ EN 61010-1 *safety requirements for electrical equipment for measurement, control and laboratory use part 1 general requirements*, the product should be used in limited energy secondary circuits.



Risk of electrical shock

Certain parts of the module can carry hazardous voltage during the operation process of the product because hazardous live voltage of primary conductor, power supply occurs, injury and/or serious damage will be caused if this warning is ignored.

Conducting parts must be inaccessible after installation of the product. Additional protection including shield or protective housing could be used according to IEC 60664 Insulation coordination for equipment within low-voltage supply systems.

Disconnection of the main supply will protect against possible injury and serious damage.



ESD protection

Damage from an ESD event will occur if the personnel is not well grounded when handling.

Important notice

Luksens reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Luksens advises its customers to obtain the latest version of the relevant information to verify, before placing any orders. The information included herein is believed to be accurate and reliable. However, since additional design, measure, production, quality control take effect in the end product, therefore Luksens shall have no liability for any potential hazards, damages, injuries or less of life resulting from the end product.

Luksens products are not to be used in any equipment or system, including but not limited to life support equipment or systems, where failure of Luksens products may cause bodily harm.