

JUMO GmbH & Co. KG

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JUMO Process Control, Inc.

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Push-in RTD temperature probe with connection cable for the solar heating system

- Temperature range from -50 to +260 °C
- For collector and accumulator temperature measurement
- Long-term stability
- Cost-effective design for solar heating systems
- Connection cable made of PVC, PUR, silicone or PTFE

The push-in RTD temperature probes have been developed based on the requirement of temperature measurement in solar thermal systems to be used in collectors and accumulators. Particular emphasis must be placed on the excellent features such as sealing, temperature and long-term stability, which are basic prerequisites to ensure reliable system operation even after many years. A design specifically adapted to the market requirements allows a cost-effective production.

A Pt1000 temperature probe is used in almost all solar thermal systems to minimize the influence of the lead resistance due to the 2-wire circuit technology. Different nominal values of the platinum temperature probe or different temperature probes are optionally available.



Technical Data

| | |
|-------------------------|--|
| Connection | Stripped wire ends, tin-plated connection wires, with ferrules or contacts 6.3 mm flat available |
| Cable | PVC, ambient temperature -5 to +105 °C PUR, ambient temperature -5 to +105 °C Silicone, ambient temperature -50 to +180 °C PTFE, ambient temperature -190 to +260 °C |
| Sheath | Stainless steel or brass |
| Measuring insert | Pt1000 temperature probe, DIN EN 60751, cl. B, 2-wire circuit different nominal values or temperature probes on request |
| Response times | $t_{0.5} = 4 \text{ s}$ and $t_{0.9} = 10 \text{ s}$ with $\varnothing 5 \text{ mm}$ $t_{0.5} = 6 \text{ s}$ and $t_{0.9} = 14 \text{ s}$ with $\varnothing 6 \text{ mm}$ in water 0.4 m/s |
| Accessories | Sheath, Data Sheet 90.9710 and 90.2440 |

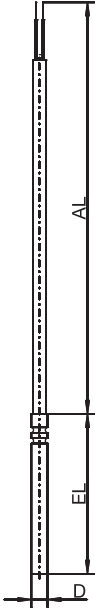
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Dimensions



Basic type 902153/10
Basic type 902153/15

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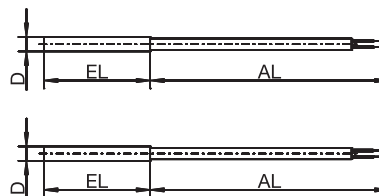
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Order details: Push-in RTD temperature probe with connection cable for the solar heating system

(1) Basic type

| | | |
|-----|---|--|
| | 902153/10 | Push-in RTD temperature probe with connection cable for the solar heating system, single-section sheath made of stainless steel |
| | 902153/15 | Push-in RTD temperature probe with connection cable for the solar heating system, single-section sheath made of brass |
| | (2) Operating temperature range in °C / cable type | |
| x x | 378 | -50 to +180 °C (short-term +250 °C) / Silicone |
| x | 386 | -50 to +260 °C (short-term +300 °C) / PTFE |
| x x | 730 | -5 to +105 °C / PVC |
| x x | 731 | -5 to +105 °C / PUR |
| | (3) Measuring insert | |
| x x | 1003 | 1x Pt 100 in 2-wire circuit |
| x x | 1005 | 1x Pt 1000 in 2-wire circuit (standard) |
| | (4) Tolerance class as per DIN EN 60 751 | |
| x x | 1 | Class B (standard) |
| | (5) Sheath diameter D in mm | |
| x | 5 | Ø 5 mm |
| x | 5.2 | Ø 5.2 mm |
| x x | 6 | Ø 6 mm (standard) |
| | (6) Fitting length EL in mm | |
| x x | 25 | 25 mm (only with sheath diameter 6 mm) |
| x | 36 | 36 mm (only with sheath diameter 5 mm) |
| x | 45 | 45 mm (standard with sheath diameter 5 mm and 5.2 mm) |
| x x | 50 | 50 mm (standard with sheath diameter 6 mm) |
| x | 60 | 60 mm (only with sheath diameter 6 mm) |
| | (7) Cable termination | |
| x x | 04 | Tin-plated wires |
| x x | 11 | Ferrules as per DIN 46228 Part 4 (standard) |
| x x | 13 | Contact 6.3 mm as per DIN 46247 |
| | (8) Cable length AL in mm (500 ≤ AL ≤ 20000) | |
| x x | 1500 | 1500 mm (standard with silicone connection cable) |
| x x | 2500 | 2500 mm (standard with PUR-/PVC connection cable) |
| x x | ... | Please specify in plain text (500 mm steps) |
| | (9) Extra codes | |
| x x | 000 | None |



| | | | | | | | | | | | | | | | | | |
|----------------------|-----------|-----|-----|-----|------|-----|-----|-----|-----|---|----|---|----|---|------|---|-----|
| Order code | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | | | | | | | | |
| Order example | 902153/10 | - | 731 | - | 1005 | - | 1 | - | 6 | - | 50 | - | 11 | - | 2500 | / | 000 |

Stock versions

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | Part No. | | | | | | | | |
|-----------|-----|-----|-----|------|-----|-----|-----|-----|----------|----|---|----|---|------|---|-----|-------------|
| 902153/10 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 50 | - | 11 | - | 1500 | / | 000 | 90/00376393 |
| 902153/10 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 50 | - | 11 | - | 2500 | / | 000 | 90/00390058 |
| 902153/10 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 50 | - | 11 | - | 3000 | / | 000 | 90/00376392 |
| 902153/10 | - | 731 | - | 1005 | - | 1 | - | 6 | - | 50 | - | 11 | - | 4000 | / | 000 | 90/00408767 |
| 902153/15 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 25 | - | 11 | - | 1500 | / | 000 | 90/00534256 |
| 902153/15 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 25 | - | 11 | - | 2500 | / | 000 | 90/00534257 |
| 902153/15 | - | 378 | - | 1005 | - | 1 | - | 6 | - | 25 | - | 11 | - | 5000 | / | 000 | 90/00520324 |
| 902153/15 | - | 731 | - | 1005 | - | 1 | - | 6 | - | 25 | - | 11 | - | 2000 | / | 000 | 90/00534258 |

Note:

Minimum order quantities are specified for this data sheet:
 Version with connection cable length AL ≤ 3000 mm: min. 100
 and connection cable length AL > 3000 mm: min. 50.
 Variations as per data sheet are **only** available in the minimum order quantity specified.
 For minimum quantities and similar basic types please refer to data and price sheet 90.2150.