JUMO GmbH & Co. KG
Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
E-mail: mail@jumo.net
Internet: www.jumo.net

JUMO Instrument Co. Ltd.
JUMO House
Temple Bank, Riverway
Harlow, Essex CM20 2DY, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
E-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

JUMO Process Control, Inc.
6733 Myers Road
East Syracuse, NY 13057, USA
Phone: 315-437-5866
1-800-554-5866
Fax: 315-437-5860
E-mail: info.us@jumo.net
Internet: www.jumousa.com

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

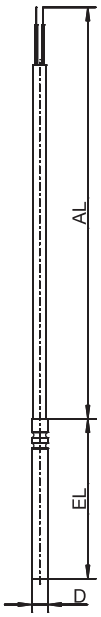
Connection	Stripped wire ends, tin-plated connection wires, with ferrules or contacts 6.3 mm flat available
Cable	PVC, ambient temperature -5 to +105 °C PUR, ambient temperature -5 to +105 °C Silicone, ambient temperature -50 to +180 °C PTFE, ambient temperature -190 to +260 °C
Sheath	Stainless steel 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 s and $t_{0.9}$ = 10 s with Ø 5 mm $t_{0.5}$ = 6 s and $t_{0.9}$ = 14 s with Ø 6 mm in water 0.4 m/s
Accessories	Sheath, Data Sheet 909710 and 902440

JUMO GmbH & Co. KG
Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
E-mail: mail@jumo.net
Internet: www.jumo.net

JUMO Instrument Co. Ltd.
JUMO House
Temple Bank, Riverway
Harlow, Essex CM20 2DY, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
E-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

JUMO Process Control, Inc.
6733 Myers Road
East Syracuse, NY 13057, USA
Phone: 315-437-5866
1-800-554-5866
Fax: 315-437-5860
E-mail: info.us@jumo.net
Internet: www.jumousa.com

Dimensions



Basic type 902153/10
Basic type 902153/15

JUMO GmbH & Co. KG
Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
E-mail: mail@jumo.net
Internet: www.jumo.net

JUMO Instrument Co. Ltd.
JUMO House
Temple Bank, Riverway
Harlow, Essex CM20 2DY, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
E-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

JUMO Process Control, Inc.
6733 Myers Road
East Syracuse, NY 13057, USA
Phone: 315-437-5866
1-800-554-5866
Fax: 315-437-5860
E-mail: info.us@jumo.net
Internet: www.jumousa.com

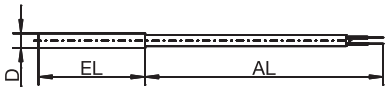
Order details: Push-in RTD temperature probe with connection cable for the solar heating system

(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	1× Pt 100 in 2-wire circuit
x	x	1005	1× Pt 1000 in 2-wire circuit (standard)
			(4) Tolerance class according to DIN EN 60751
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 according to DIN 46228 Part 4 (standard)
x	x	13	Contact 6.3 mm according to DIN 46247
			(8) Cable length AL in mm (500 to 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

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)
Order code		-		-		-		-		-		-		-		/	
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	00376393
902153/10	-	378	-	1005	-	1	-	6	-	50	-	11	-	2500	/	000	00390058
902153/10	-	378	-	1005	-	1	-	6	-	50	-	11	-	3000	/	000	00376392
902153/10	-	731	-	1005	-	1	-	6	-	50	-	11	-	4000	/	000	00408767
902153/15	-	378	-	1005	-	1	-	6	-	25	-	11	-	1500	/	000	00534256
902153/15	-	378	-	1005	-	1	-	6	-	25	-	11	-	5000	/	000	00520324
902153/15	-	731	-	1005	-	1	-	6	-	25	-	11	-	2000	/	000	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 according to 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 902150.