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JUMO FOODtemp

RTD insertion temperature probes



- **for temperatures from -50 ... +260 °C**
- **Steam-tight and pressure-resistant**
- **High mechanical strength**
- **For use in the food industry**
- **Available with multiple measurement points**

Due to their special construction, these robust, steam-tight RTD insertion temperature probes are especially suited to smoking, cooking, boiling, and baking processes in all food processing and food preservation applications. Further application areas are autoclaves and sterilizers.

The stainless steel thermowell is available with either a concentric or an oblique insertion tip (approx. 25° or 45°).

All versions have a highly vibration resistant design. The handles are oil-resistant and acid-proof.

As a measurement insert, a Pt100 temperature sensing element according to EN 60751, class B, is used in two-wire circuit or three-wire circuit as part of the standard equipment.

Technical Data

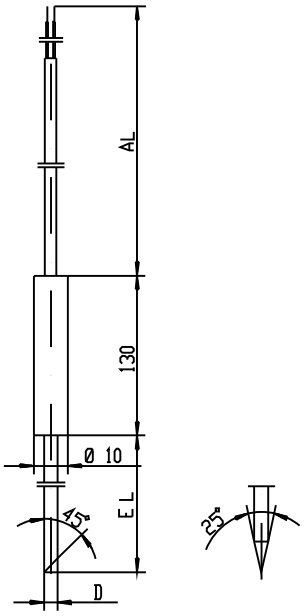
Cable termination	Stripped wire ends, with ferrules, also available with contacts or multi-pole connector
Cable	Silicone, permissible ambient temperature range -50 ... +180 °C PTFE, permissible ambient temperature range -50 ... +260 °C Shielded cable optionally available
Handle	PPS plastic handle, ambient temperature max. +200 °C Silicone handle, ambient temperature max. +200 °C PTFE handle, ambient temperature max. +260 °C FPM handle, ambient temperature max. +200 °C PEEK handle, ambient temperature max. +260 °C
Thermowell	Stainless steel 1.4571, Ø 4 mm, Ø 4.5 mm
Thermowell tip	Concentric Oblique
Measurement insert	Pt100 temperature sensing element according to DIN EN 60751, Class B, two-wire circuit
Protection class	IP67

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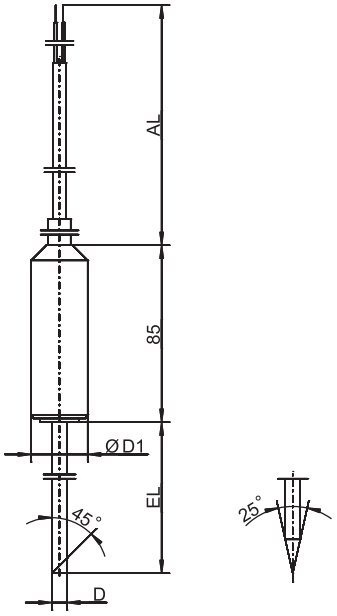
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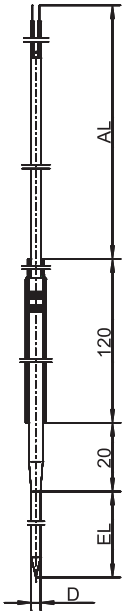
Dimensions



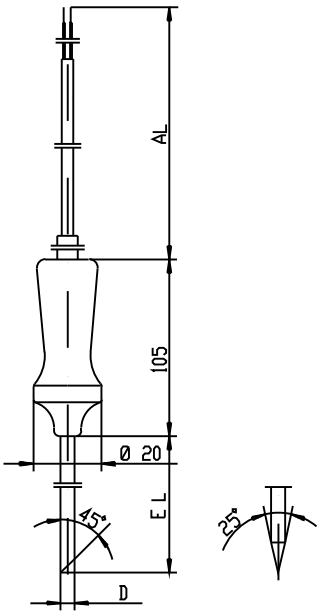
Basic type 902350/22
Basic type 902350/23



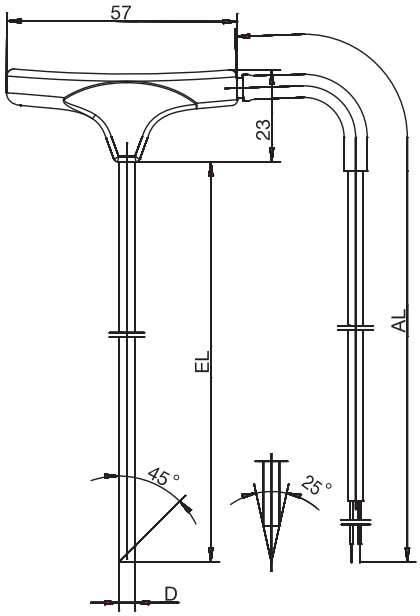
Basic type 902350/33
Ø D1 = 12 mm
Basic type 902350/63
Ø D1 = 15 mm



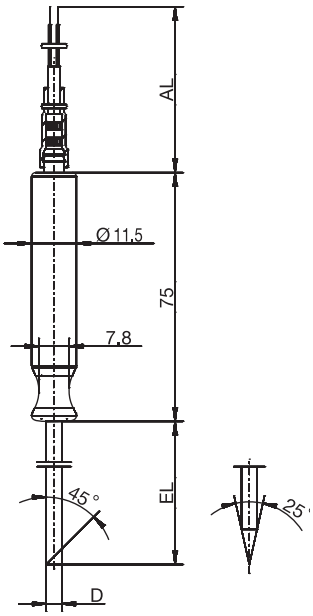
Basic type 902350/37
Basic type 902350/38



Basic type 902350/43



Basic type 902350/82
Basic type 902350/83



Basic type 902350/84

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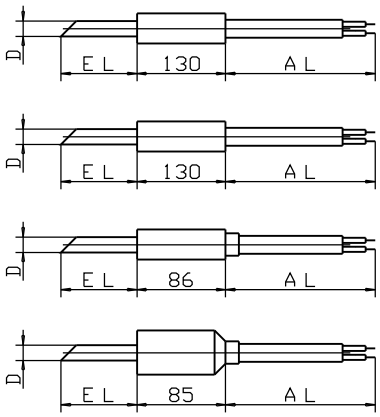
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Order details: RTD insertion temperature probes

(1) Basic type

902350/22	RTD insertion temperature probes with silicone handle Ø 10 mm and silicone cable
902350/23	RTD insertion temperature probes with silicone handle Ø 10 mm and PTFE cable
902350/33	RTD insertion temperature probes with PTFE handle Ø D1 = 12 mm and PTFE cable
902350/63	RTD insertion temperature probes with PTFE handle Ø D1 = 15 mm and PTFE cable



(2) Operating temperature range in °C

x	x	x	x	380	-50 ... +200 °C
		x	x	386	-50 ... +260 °C

(3) Measurement insert

x	x	x	x	1001	1× Pt100 in three-wire circuit
x	x	x	x	1003	1× Pt100 in two-wire circuit
x	x	x	x	1011	1× Pt100 in four-wire circuit
x	x	x	x	2001	2× Pt100 in three-wire circuit (not for silicone cable and thermowell diameter D = 4 mm)
x	x	x	x	2003	2× Pt100 in two-wire circuit

(4) Tolerance class according to DIN EN 60751

x	x	x	x	1	Class B (standard)
x	x	x	x	2	Class A

(5) Thermowell diameter D in mm

x	x	x	x	4	Ø 4 mm
x	x	x	x	4,5	Ø 4.5 mm

(6) Insertion length EL in mm

x	x	x	x	100	100 mm
x	x	x	x	150	150 mm
x	x	x	x	200	200 mm

(7) Insertion tip

x	x	x	x	2	Concentric
x	x	x	x	3	Oblique

(8) Cable termination

x	x	x	x	11	Ferrules
x	x	x	x	80	Multi-pole connector (specify type in plain text)

(9) Cable length AL in mm (AL 500 ... 500000 mm)

x	x	x	x	4000	4000 mm (standard)
x	x	x	x	...	Please specify in plain text (500 mm steps)

(10) Extra codes

x	x	x	x	000	without extra codes
x	x	x	x	317	Shielded cable

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)
Order code		-		-		-		-		-		-		-		-		/	
Order example	902350/22	-	380	-	1003	-	1	-	4	-	100	-	3	-	11	-	4000	/	000

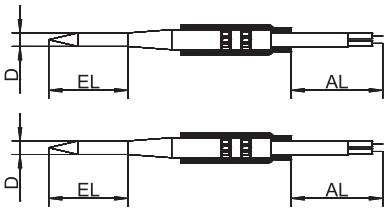
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Order details: RTD insertion temperature probes

			(1)	**Basic type**
		902350/37		Miniature RTD insertion temperature probes with FPM handle Ø 6.5 mm and silicone cable
		902350/38		Miniature RTD insertion temperature probes with FPM handle Ø 6.5 mm and shielded PTFE cable
			(2)	**Operating temperature range in °C**
x	x	380		-50 ... +200 °C
			(3)	**Measurement insert**
	x	1001		1× Pt100 in three-wire circuit
x	x	1003		1× Pt100 in two-wire circuit
	x	1011		1× Pt100 in four-wire circuit
			(4)	**Tolerance class according to DIN EN 60751**
x	x	1		Class B (standard)
x	x	2		Class A
			(5)	**Thermowell diameter D in mm**
x	x	2.5		4 mm, stepped down to 2.5 mm
			(6)	**Insertion length EL in mm**
x	x	30		30 mm
x	x	50		50 mm
x	x	80		80 mm
x	x	100		100 mm (standard)
			(7)	**Cable termination**
x	x	11		Ferrules
x	x	80		Multi-pole connector (specify type in plain text)
			(8)	**Cable length AL in mm (AL 500 ... 500000 mm)**
x	x	4000		4000 mm (standard)
x	x	...		Please specify in plain text (500 mm steps)



	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)
Order code		-		-		-		-		-		-		-	
Order example	902350/37	-	380	-	1003	-	1	-	2.5	-	100	-	11	-	4000

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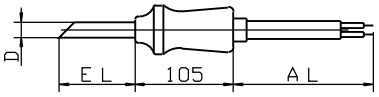
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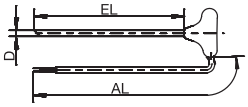
Order details: RTD insertion temperature probes

(1) Basic type

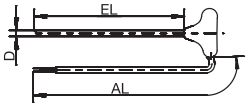
902350/43 RTD insertion temperature probes with PPS plastic handle Ø 20 mm and PTFE cable



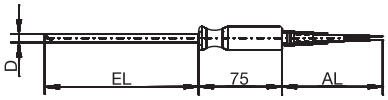
902350/82 RTD insertion temperature probes with PEEK handle and silicone cable



902350/83 RTD insertion temperature probes with PEEK handle and PTFE cable



902350/84 RTD insertion temperature probes with PEEK handle and PTFE cable



					(2) Operating temperature range in °C
x	x			380	-50 ... +200 °C
		x	x	386	-50 ... +260 °C
					(3) Measurement insert
x	x	x	x	1001	1× Pt100 in three-wire circuit
x	x	x	x	1003	1× Pt100 in two-wire circuit
x		x	x	1011	1× Pt100 in four-wire circuit
x		x		2001	2× Pt100 in three-wire circuit (not for silicone cable and thermowell diameter D = 4 mm)
x		x	x	2003	2× Pt100 in two-wire circuit
					(4) Tolerance class according to DIN EN 60751
x	x	x	x	1	Class B (standard)
x	x	x	x	2	Class A
					(5) Thermowell diameter D in mm
x	x	x	x	4	Ø 4 mm
		x		4,5	Ø 4.5 mm
					(6) Insertion length EL in mm
x	x	x	x	100	100 mm (standard)
x	x	x	x	150	150 mm
					(7) Insertion tip
x	x	x	x	2	Concentric
x	x	x	x	3	Oblique
					(8) Cable termination
x	x	x	x	11	Ferrules
x	x	x	x	80	Multi-pole connector (specify type in plain text)
					(9) Cable length AL in mm (AL 500 ... 500000 mm)
x	x	x	x	4000	4000 mm (standard)
x	x	x	x	...	Please specify in plain text (500 mm steps)
					(10) Extra codes
x	x	x	x	000	without extra codes
x		x	x	317	Shielded cable

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)
Order code		-		-		-		-		-		-		-		-		/	
Order example	902350/83	-	386	-	1001	-	1	-	4.5	-	100	-	2	-	03	-	4000	/	000

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Stock versions

(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	Part No.
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902350/22	-	380	-	1001	-	1	-	4	-	100	-	2	-	11	-	4000	/	317	00338153
902350/23	-	380	-	1003	-	1	-	4	-	100	-	3	-	11	-	4000	/	000	00085418
902350/23	-	380	-	1003	-	1	-	4	-	100	-	2	-	11	-	4000	/	000	00085420
902350/43	-	380	-	1003	-	1	-	4	-	100	-	3	-	11	-	4000	/	000	00083365
902350/43	-	380	-	1001	-	1	-	4	-	100	-	3	-	11	-	4000	/	000	00083366
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902350/83	-	386	-	1001	-	1	-	4	-	100	-	3	-	11	-	4000	/	000	00523228
902350/84	-	386	-	1001	-	1	-	4	-	100	-	3	-	11	-	4000	/	000	00523235
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