JUMO HEATtemp

Screw-in RTD Temperature Probe for Heat Meters with Connecting Cable for Direct Mounting (Type DS/DL)

- **For temperatures between 0 and 180 °C**
- **Approval for heat meters as replaceable temperature probes; MID and domestic approvals**
- **Fulfills the requirements of DIN EN 1434, AGFW FW202, and FW211**
- **Approval for cold and combined cold/heat meters**
- **Paired and calibrated according to the German calibration regulations**
- **Production certified according to module D of MID (CE and metrology identification**

Heat meter RTD temperature probes are installed to measure temperatures in closed pipeline systems. For optimum thermic coupling to the measured medium in the heating system, direct mounting without additional thermowell is recommended.

The temperature probes are approved according to the EU directive 2004/22/EC (MID) as well as according to the German calibration regulations (domestic approval).

For pipelines with a nominal width smaller than 50 mm, type DS temperature probes are used. Installation in ball valves has been shown to be the optimum installation location, see data sheet 902440. In addition, emptying the system when installing and replacing the temperature probe at the end of the calibration period is no longer necessary.

The temperature probes are available in paired and calibrated versions. The officially recognized testing agency for heat KF2 is available for this. Moreover, the production is certified according to module D of MID, and the temperature probes are also available with the CE and metrology identification marking.

Technical data

Connection	Ferrules
Connecting cable	PVC, PUR, TPE, silicone; unshielded or shielded For max. connecting cable length see table on the next page
Process connection	Type DS: screw connection M10 × 1, brass according to DIN EN 1434 Type DL: thread G 1/4, G 1/2 stainless steel
Protection tube	Type DS: stainless steel Ø 5.4 mm offset by Ø 3.3/Ø 3.6 mm Type DL: stainless steel Ø 8 mm offset by Ø 6 mm
Measuring insert	Platinum temperature sensor according to DIN EN 60751 Nominal value: Pt100, Pt500, Pt1000; class B Connection: two-wire/four-wire circuit
Temperature	0 to 180 °C
Temperature difference	3 to 180 K
Minimum immersion depth	Type DS: 15 mm Type DL: 30 mm
Insertion length	Type DS: 25 to 60 mm Type DL: 60 to 280 mm
Maximum pressure	PN 25
Flow velocity	2 m/s (water)
Response behavior	Type DS: $t_{0.5}$ = 2 s Type DL: $t_{0.5}$ = 6 s
Thermoelectric voltage	≤ 5 µV
Environmental conditions	Climatic 0 to 70 °C Protection type IP65 Electromagnetic E1 Mechanical M3

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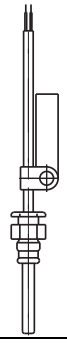
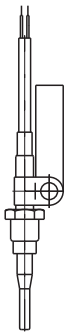
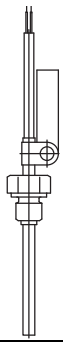
Conductor cross section	Max. connecting cable length AL for Pt100	Max. connecting cable length AL for Pt500	Max. connecting cable length AL for Pt1000
0.22 mm^2	2500 mm	12500 mm	25000 mm
0.34 mm^2	3500 mm	17500 mm	35000 mm
0.50 mm^2	5000 mm	25000 mm	50000 mm

Note:
The possible limitation of the connecting cable length due to the qualification approval of the ALU/meter.
For four-wire circuits, the max. connecting cable lengths are limited by the requirements of the ALU/meter.

Overview of approvals

Version	Basic type	Approval	
		Type	Number
	902425/05 (DS) not for new developments	Domestic (Germany)	22.30/89.07 (Pt100) (150 °C) 22.30/89.08 (Pt500) (150 °C) 22.30/89.09 (Pt1000) (150 °C)
	902425/10 (DS)	Domestic (Germany)	22.30/99.10 (105 °C)
	902425/50 (DS)	Domestic (Germany)	22.30/02.03 (150 °C)
	902425/10 (DS)	Domestic (Germany) according to DIN EN 1434	22.70/99.10 (105 °C)
	902425/50 (DS)	Domestic (Germany) according to DIN EN 1434	22.70/02.03 (150 °C)
	902428/50 (DS)	Module B according to MID[a]	A0445-2112-2007 (150 °C)
	902455/50 (DS)	Domestic (Germany; cold)	22.77/08.04 (150 °C)
	902425/20 (DS)	Domestic (Germany)	22.30/99.04 (180 °C)
	902425/20 (DS)	Domestic (Germany) according to DIN EN 1434	22.70/99.04 (180 °C)
	902425/50 (DS)	Domestic (Germany)	22.30/02.09 (150 °C)
	902425/50 (DS)	Domestic (Germany) according to DIN EN 1434	22.70/02.09 (150 °C)
	902428/70 (DS)	Module B according to MID[a]	DE-06-MI004-PTB010 (150 °C)
	902428/20 (DS)	Module B according to MID[a]	DE-06-MI004-PTB012 (180 °C)
	902455/20 (DS) 902455/70 (DS)	Domestic (Germany; cold)	22.77/08.04 (150 °C)
	90.280-F50 (DL)	Domestic (Germany)	22.30/91.05 (180 °C)
	902425/30 (DL) 902425/40 (DL)	Domestic (Germany) according to DIN EN 1434	22.70/00.01 (180 °C)
	902428/30 (DL) 902428/40 (DL)	Module B according to MID[a]	DE-06-MI004-PTB011 (180 °C)
	902455/30 (DL) 902455/40 (DL)	Domestic (Germany; cold)	22.77/09.01 (150 °C)

[a] MID = Measuring Instruments Directive 2004/22/EC

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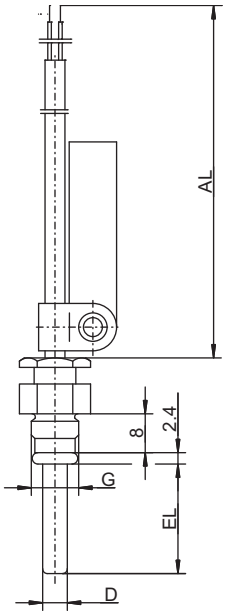
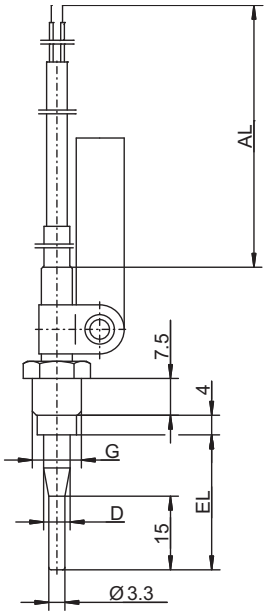
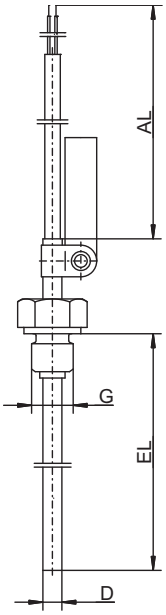
Dimensions



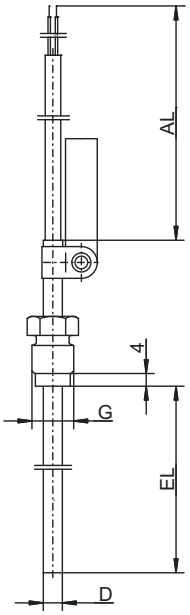
Basic type 902425/05 (DS)
Basic type 902425/10 (DS)
Basic type 902425/50 (DS)
Basic type 902428/50 (DS)
Basic type 902455/50 (DS)



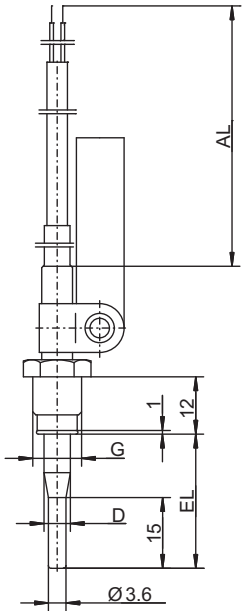
Basic type 902425/20 (DS)
Basic type 902428/20 (DS)
Basic type 902455/20 (DS)



Basic type 90.280-F50 (DL)
Basic type 902425/30 (DL)
Basic type 902428/30 (DL)
Basic type 902455/30 (DL)



Basic type 90.280-F50 (DL)
Basic type 902425/40 (DL)
Basic type 902428/40 (DL)
Basic type 902455/40 (DL)



Basic type 902425/50 (DS)
Basic type 902428/70 (DS)
Basic type 902455/70 (DS)

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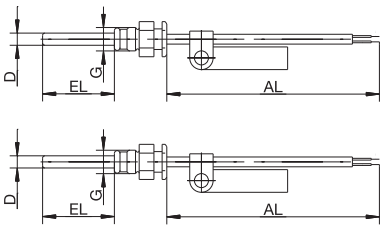
Order details:

**heat meter RTD temperature probe with connecting cable,
PTB approved 22.30/89.07 (.08; .09), 22.30/99.10, 22.70/99.10, 22.30/02.03, 22.70/02.03**

			(1)	**Basic type**
		902425/10		Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and smooth protection tube $T_{max.}$ = 105 °C
		902425/05		Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and smooth protection tube $T_{max.}$ = 150 °C (902425/05 not for new developments)
			(2)	**Operating temperature in °C**
x	x	815		0 to 105 °C/PVC 105, PUR (only in two-wire circuit)
	x	824		0 to 150 °C/silicone
			(3)	**Measuring insert**
x	x	1003		1 × Pt100 in two-wire circuit
x	x	1004		1 × Pt500 in two-wire circuit
x	x	1005		1 × Pt1000 in two-wire circuit
	x	1011		1 × Pt100 in four-wire circuit
	x	1012		1 × Pt500 in four-wire circuit
	x	1013		1 × Pt1000 in four-wire circuit
			(4)	**Tolerance class according to DIN EN 60751**
x	x	1		Class B (standard)
	x	2		Class A
	x	3		Class AA (1/3 DIN B)
			(5)	**Protection tube diameter D in mm**
x	x	5		Ø 5 mm
x	x	5.2		Ø 5.2 mm
			(6)	**Insertion length EL in mm (25 to 60 mm)**
x	x	26		26 mm
x	x	. . .		Specifications in plain text
			(7)	**Process connection G**
x	x	114		Screw connection M10 × 1
			(8)	**Connecting cable end**
x	x	04		Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	11		Ferrules according to DIN 46228 part 4 (standard)
			(9)	**Connecting cable length AL in mm (> 500 mm)**
x	x	1500		1500 mm
x	x	2500		2500 mm (standard)
x	x	. . .		Specifications in plain text (increments of 500 mm)
			(10)	**Extra code**
x	x	000		Without
x	x	317		Shielded connecting cable
x	x	318		Spiral connecting cable (only PUR)
x	x	340		Version paired according to DIN EN 1434[a]
x	x	341		Version paired according to DIN EN 1434 and calibrated[a, b]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes
[b] Calibration fees according to current Federal Law Gazette (Bundesgesetzblatt), dependent on number of units, not eligible for discount

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)
Order code		-		-		-		-		-		-		-		/		...[a]
Order example	902425/10	-	815	-	1003	-	1	-	5.2	-	26	-	114	-	11	-	2500	/	341

[a] List extra codes in sequence, separated by commas.

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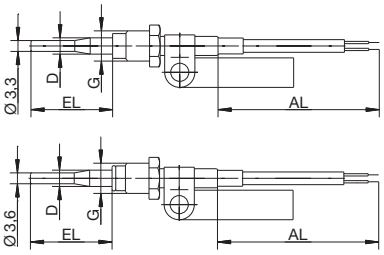
Order details:

**heat meter RTD temperature probe with connecting cable,
PTB approved 22.30/99.04, 22.70/ 99.04, 22.30/02.09, 22.70/02.09**

			(1)	**Basic type**
		902425/20		Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube, $T_{max.}$ = 180 °C
		902425/50		Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube, $T_{max.}$ = 150 °C
			(2)	**Operating temperature in °C**
x	x	815		0 to 105 °C/PVC 105, PUR (only in two-wire circuit)
x	x	824		0 to 150 °C/silicone
x		830		0 to 180 °C/silicone
			(3)	**Measuring insert**
x	x	1003		1 × Pt100 in two-wire circuit
x	x	1004		1 × Pt500 in two-wire circuit
x	x	1005		1 × Pt1000 in two-wire circuit
x	x	1011		1 × Pt100 in four-wire circuit
x	x	1012		1 × Pt500 in four-wire circuit
x	x	1013		1 × Pt1000 in four-wire circuit
			(4)	**Tolerance class according to DIN EN 60751**
x	x	1		Class B (standard)
x		2		Class A
x		3		Class AA (1/3 DIN B)
			(5)	**Protection tube diameter D in mm**
x		5.4		Ø 5.4 mm offset by Ø 3.3 mm
	x	5.4		Ø 5.4 mm offset by Ø 3.6 mm
			(6)	**Insertion length EL in mm (25 to 60 mm)**
x	x	27.5		27.5 mm
x		38		38 mm
x	x	60		60 mm
x		. . .		Specifications in plain text
			(7)	**Process connection G**
x	x	114		Screw connection M10 × 1
			(8)	**Connecting cable end**
x	x	04		Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	11		Ferrules according to DIN 46228 part 4 (standard)
			(9)	**Connecting cable length AL in mm (> 500 mm)**
x	x	1500		1500 mm
x	x	2500		2500 mm (standard)
x	x	. . .		Specifications in plain text (increments of 500 mm)
			(10)	**Extra code**
x	x	000		Without
x	x	317		Shielded connecting cable
x	x	318		Spiral connecting cable (only PUR)
x	x	340		Version paired according to DIN EN 1434[a]
x	x	341		Version paired according to DIN EN 1434 and calibrated[a, b]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes
[b] Calibration fees according to current Federal Law Gazette (Bundesgesetzblatt), dependent on number of units, not eligible for discount

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		-		/		,...[a]
Order example	902425/20	-	824	-	1003	-	1	-	5.4	-	27.5	-	114	-	11	-	2500	/	341	

[a] List extra codes in sequence, separated by commas.

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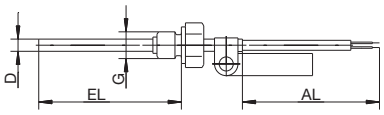
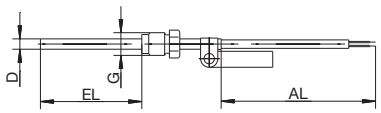
Order details:

heat meter RTD temperature probe with connecting cable, PTB approved 22.30/91.05; 22.70/00.01

(1) Basic type

902425/30	Screw-in RTD temperature probe for direct mounting (DL) with fixed screw connection and smooth protection tube	
902425/40	Screw-in RTD temperature probe for direct mounting (DL) with loose screw connection and smooth protection tube	

			(2) Operating temperature in °C
x	x	824	0 to 150 °C/silicone
x	x	830	0 to 180 °C/silicone
			(3) Measuring insert
x	x	1003	1 × Pt100 in two-wire circuit
x	x	1004	1 × Pt500 in two-wire circuit
x	x	1005	1 × Pt1000 in two-wire circuit
x	x	1011	1 × Pt100 in four-wire circuit
x	x	1012	1 × Pt500 in four-wire circuit
x	x	1013	1 × Pt1000 in four-wire circuit
			(4) Tolerance class according to DIN EN 60751
x	x	1	Class B (standard)
x	x	2	Class A
x	x	3	Class AA (1/3 DIN B)
			(5) Protection tube diameter D in mm
x	x	6	Ø 6 mm
x		8	Ø 8 mm offset by Ø 6 mm
			(6) Insertion length EL in mm (60 to 400 mm)
x	x	85	85 mm
x	x	120	120 mm
x		210	210 mm (only for Ø 8 mm offset by Ø 6 mm)
x	x	. . .	Specifications in plain text
			(7) Process connection G
x	x	102	Screw connection G 1/4
x		104	Screw connection G 1/2
x	x	. . .	Specifications in plain text
			(8) Connecting cable end
x	x	04	Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	11	Ferrules according to DIN 46228 part 4 (standard)
			(9) Connecting cable length AL in mm (> 500 mm)
x	x	1500	1500 mm
x	x	2500	2500 mm (standard)
x	x	. . .	Specifications in plain text (increments of 500 mm)
			(10) Extra code
x	x	000	Without
x	x	317	Shielded connecting cable
x	x	340	Version paired according to DIN EN 1434[a]
x	x	341	Version paired according to DIN EN 1434 and calibrated[a, b]

[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes
[b] Calibration fees according to current Federal Law Gazette (Bundesgesetzblatt), dependent on number of units, not eligible for discount

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		-		/		...[a]
Order example	902425/30	-	830	-	1003	-	1	-	6	-	120	-	104	-	11	-	2500	/	341	

[a] List extra codes in sequence, separated by commas.

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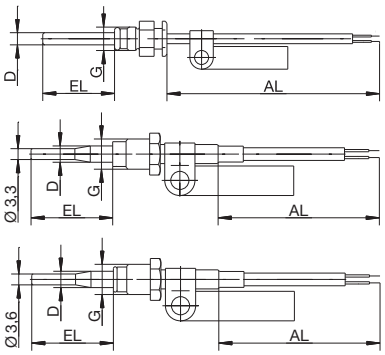
Order details:

**heat meter RTD temperature probe with connecting cable,
MID approved A0445-2112-2007, DE-06-MI004-PTB010, DE-06-MI004-PTB012**

				(1) Basic type
			902428/50	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and smooth protection tube $T_{max.}$ = 150 °C
			902428/20	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube $T_{max.}$ = 180 °C
			902428/70	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube $T_{max.}$ = 150 °C
				(2) Operating temperature in °C
x	x	x	815	0 to 105 °C/PVC 105, PUR (only in two-wire circuit)
x	x	x	824	0 to 150 °C/silicone
	x		830	0 to 180 °C/silicone
				(3) Measuring insert
x	x	x	1003	1 × Pt100 in two-wire circuit
x	x	x	1004	1 × Pt500 in two-wire circuit
x	x	x	1005	1 × Pt1000 in two-wire circuit
x	x	x	1011	1 × Pt100 in four-wire circuit
x	x	x	1012	1 × Pt500 in four-wire circuit
x	x	x	1013	1 × Pt1000 in four-wire circuit
				(4) Tolerance class according to DIN EN 60751
x	x	x	1	Class B (standard)
	x		2	Class A
	x		3	Class AA (1/3 DIN B)
				(5) Protection tube diameter D in mm
x			5	Ø 5 mm
x			5.2	Ø 5.2 mm
	x		5.4	Ø 5.4 mm offset by Ø 3.3 mm
		x	5.4	Ø 5.4 mm offset by Ø 3.6 mm
				(6) Insertion length EL in mm (25 to 60 mm)
x			26	26 mm
	x	x	27.5	27.5 mm
	x		38	38 mm
	x	x	60	60 mm
x	x		. . .	Specifications in plain text
				(7) Process connection G
x	x	x	114	Screw connection M10 × 1
				(8) Connecting cable end
x	x	x	04	Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	x	11	Ferrules according to DIN 46228 part 4 (standard)
				(9) Connecting cable length AL in mm (> 500 mm)
x	x	x	1500	1500 mm
x	x	x	2500	2500 mm (standard)
x	x	x	. . .	Specifications in plain text (increments of 500 mm)
				(10) Extra code
x	x	x	000	Without
x	x	x	317	Shielded connecting cable
x	x	x	318	Spiral connecting cable (only PUR)
x	x	x	340	Version paired according to DIN EN 1434[a]
x	x	x	761	Version paired with CE and metrology identification marking (initial calibration)[a]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		/		....[a]
Order example	902428/20	-	830	-	1003	-	1	-	5.4	-	27.5	-	114	-	11	-	2500	/	761	

[a] List extra codes in sequence, separated by commas.

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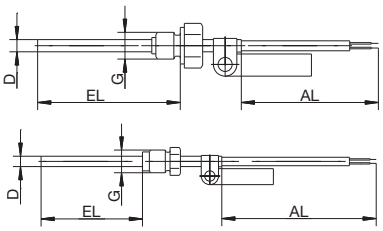
Order details:

heat meter RTD temperature probe with connecting cable, MID approved DE-06-MI004-PTB011

			(1)	**Basic type**
		902428/30		Screw-in RTD temperature probe for direct mounting (DL) with fixed screw connection and smooth protection tube
		902428/40		Screw-in RTD temperature probe for direct mounting (DL) with flange and loose screw connection and smooth protection tube
			(2)	**Operating temperature in °C**
x	x	815		0 to 105 °C/PVC 105, PUR (only in two-wire circuit)
x	x	824		0 to 150 °C/silicone
x	x	830		0 to 180 °C/silicone
			(3)	**Measuring insert**
x	x	1003		1 × Pt100 in two-wire circuit
x	x	1004		1 × Pt500 in two-wire circuit
x	x	1005		1 × Pt1000 in two-wire circuit
x	x	1011		1 × Pt100 in four-wire circuit
x	x	1012		1 × Pt500 in four-wire circuit
x	x	1013		1 × Pt1000 in four-wire circuit
			(4)	**Tolerance class according to DIN EN 60751**
x	x	1		Class B (standard)
x	x	2		Class A
x	x	3		Class AA (1/3 DIN B)
			(5)	**Protection tube diameter D in mm**
x	x	6		Ø 6 mm
x	x	8		Ø 8 mm offset by Ø 6 mm
			(6)	**Insertion length EL in mm (60 to 210 mm)**
x	x	85		85 mm
x	x	120		120 mm
x		210		210 mm (only for Ø 8 mm offset by Ø 6 mm)
x	x	...		Specifications in plain text
			(7)	**Process connection G**
x	x	102		Screw connection G 1/4
x		104		Screw connection G 1/2
x	x	. . .		Specifications in plain text
			(8)	**Connecting cable end**
x	x	04		Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	11		Ferrules according to DIN 46228 part 4 (standard)
			(9)	**Connecting cable length AL in mm (> 500 mm)**
x	x	1500		1500 mm
x	x	2500		2500 mm (standard)
x	x	. . .		Specifications in plain text (increments of 500 mm)
			(10)	**Extra code**
x	x	000		Without
x	x	317		Shielded connecting cable
x	x	340		Version paired according to DIN EN 1434[a]
x	x	761		Version paired with CE and metrology identification marking (initial calibration)[a]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		-		/		...[a]
Order example	902428/30	-	830	-	1003	-	1	-	6	-	120	-	104	-	11	-	2500	/	761	

[a] List extra codes in sequence, separated by commas.

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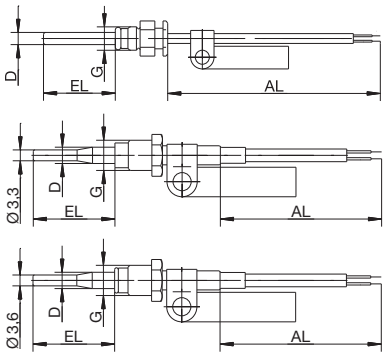
Order details:

cold/combined cold-heat meter RTD temperature probe with connecting cable, PTB approved 22.77/08.04 and MID approved DE-06-MI004-PTB010, DE-06-MI004-PTB012, A0445-2112-2007

				(1) Basic type
			902455/50	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and smooth protection tube
			902455/20	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube
			902455/70	Screw-in RTD temperature probe for direct mounting (DS) with loose screw connection and offset protection tube
				(2) Operating temperature in °C
x	x	x	815	0 to 105 °C/TPE (only in two-wire circuit)
x	x	x	824	0 to 150 °C/silicone
				(3) Measuring insert
x	x	x	1003	1 × Pt100 in two-wire circuit
x	x	x	1004	1 × Pt500 in two-wire circuit
x	x	x	1005	1 × Pt1000 in two-wire circuit
x	x	x	1011	1 × Pt100 in four-wire circuit
x	x	x	1012	1 × Pt500 in four-wire circuit
x	x	x	1013	1 × Pt1000 in four-wire circuit
				(4) Tolerance class according to DIN EN 60751
x	x	x	1	Class B (standard)
	x		2	Class A
	x		3	Class AA (1/3 DIN B)
				(5) Protection tube diameter D in mm
x			5	Ø 5 mm
x			5.2	Ø 5.2 mm
	x		5.4	Ø 5.4 mm offset by Ø 3.3
		x	5.4	Ø 5.4 mm offset by Ø 3.6
				(6) Insertion length EL in mm (25 to 60 mm)
x			26	26 mm
	x	x	27.5	27.5 mm
	x		38	38 mm
	x	x	60	60 mm
x	x		. . .	Specifications in plain text
				(7) Process connection G
x	x	x	114	Screw connection M10 × 1
				(8) Connecting cable end
x	x	x	04	Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	x	11	Ferrules according to DIN 46228 part 4 (standard)
				(9) Connecting cable length AL in mm (> 500 mm)
x	x	x	1500	1500 mm
x	x	x	2500	2500 mm (standard)
x	x	x	. . .	Specifications in plain text (increments of 500 mm)
				(10) Extra code
x	x	x	000	Without
x	x	x	317	Shielded connecting cable
x	x	x	340	Version paired according to DIN EN 1434[a]
x	x	x	341	Version paired according to DIN EN 1434 and calibrated (cold, only for Germany)[a, b]
x	x	x	761	Version paired with CE and metrology identification marking (initial calibration, heat)[a]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes
[b] Calibration fees according to current Federal Law Gazette (Bundesgesetzblatt), dependent on number of units, not eligible for discount

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		-		/		...[a]
Order example	902455/50	-	824	-	1003	-	1	-	5.2	-	26	-	114	-	11	-	2500	/	341, 761	

[a] List extra codes in sequence, separated by commas.

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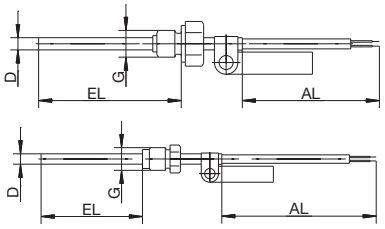
Order details:

cold/combined cold-heat meter RTD temperature probe with connecting cable, PTB approved 22.77/09.01 and MID approved DE06-MI004-PTB011

			(1)	**Basic type**
		902455/30		Screw-in RTD temperature probe for direct mounting (DL) with fixed screw connection and smooth protection tube
		902455/40		Screw-in RTD temperature probe for direct mounting (DL) with flange and loose screw connection and smooth protection tube
			(2)	**Operating temperature in °C**
x	x	824		0 to 150 °C/silicone
			(3)	**Measuring insert**
x	x	1003		1 × Pt100 in two-wire circuit
x	x	1004		1 × Pt500 in two-wire circuit
x	x	1005		1 × Pt1000 in two-wire circuit
x	x	1011		1 × Pt100 in four-wire circuit
x	x	1012		1 × Pt500 in four-wire circuit
x	x	1013		1 × Pt1000 in four-wire circuit
			(4)	**Tolerance class according to DIN EN 60751**
x	x	1		Class B (standard)
x	x	2		Class A
x	x	3		Class AA (1/3 DIN B)
			(5)	**Protection tube diameter D in mm**
x	x	6		Ø 6 mm
x	x	8		Ø 8 mm offset by Ø 6 mm
			(6)	**Insertion length EL in mm (60 to 210 mm)**
x	x	85		85 mm
x	x	120		120 mm
x		210		210 mm (only for Ø 8 mm offset by Ø 6 mm)
x	x	...		Specifications in plain text
			(7)	**Process connection G**
x	x	102		Screw connection G 1/4
x		104		Screw connection G 1/2
x	x	. . .		Specifications in plain text
			(8)	**Connecting cable end**
x	x	04		Tin-plated connection strands (only for temperature probes permanently connected to the ALU)
x	x	11		Ferrules according to DIN 46228 part 4 (standard)
			(9)	**Connecting cable length AL in mm (> 500 mm)**
x	x	1500		1500 mm
x	x	2500		2500 mm (standard)
x	x	. . .		Specifications in plain text (increments of 500 mm)
			(10)	**Extra code**
x	x	000		Without
x	x	317		Shielded connecting cable
x	x	340		Version paired according to DIN EN 1434[a]
x	x	341		Version paired according to DIN EN 1434 and calibrated (cold, only for Germany)[a, b]
x	x	761		Version paired with CE and metrology identification marking (initial calibration, heat)[a]



[a] Price for pairing depends on number of units; cost effective from 30 pairs of temperature probes
[b] Calibration fees according to current Federal Law Gazette (Bundesgesetzblatt), dependent on number of units, not eligible for discount

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)	
Order code		-		-		-		-		-		-		-		-		/		,...[a]
Order example	902455/30	-	824	-	1003	-	1	-	6	-	120	-	104	-	11	-	2500	/	341.761	

[a] List extra codes in sequence, separated by commas.

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