

Data sheet



Temperature sensors with terminal head and cable insert



Temperature sensors with terminal head and cable insert

Temperature probes with terminal head and measuring insert on the base of the cable (series 51-WMK) are dedicated for temperature measurements in low-pressure installations, in various media, including gas, liquid, solid (plastic). Depending on the type of measuring insert and protection tube can be used up to +400°C (+500°C on special demand).

As a standard, the sensors are made in the form of a straight metal protection tube, closed at the bottom with an internal measuring sensor and connection head. Depending on the application, the probe is mounted using compression fittings or additional mounting covers.

For fast response time of temperature changes we offer construction with a narrowed measuring tip.

For special applications (e.g. high accuracy), we recommend using high-tolerance measuring sensors in a 4-wire connection.

Resistance characteristics and limit deviations of our resistance sensors (Pt100, Pt1000, Pt500) are comply with the standard EN 60751 (IEC60751).

RTDs with characteristics individually selected by the customer are made on request.

Applications Temperature Sensors of the product group 51-WMK



Machines and devices



Liquids



Heating appliances



Refrigeration and freezing chambers



Plastics industry



HVAC





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Example, typical version of temperature sensor series 51-WMK

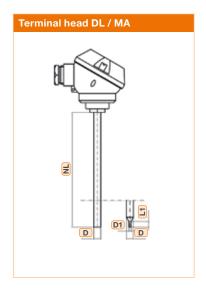


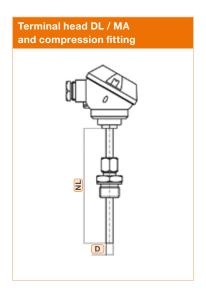


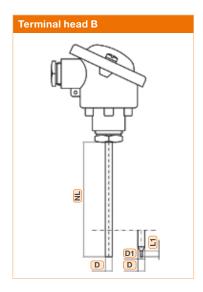




Construction







NL Nominal length

D Diameter Protective sleeve

D1 Diameter Taper

L1 Length Taper

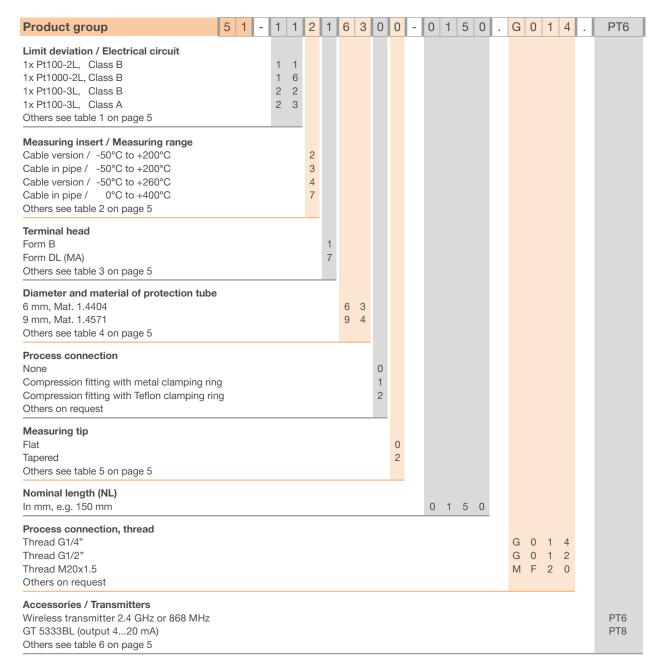
Special versions, such as another type of material, process connections or additional mounting accessories are available according to individual arrangements.

Feel free to contact us!



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Article number key





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Allocation tables

Table 1 - Limit deviation / Electrical circuit

	Limit deviation								
Sensor x	Pt100	Pt100	Pt100	Pt100	Pt100	Pt1000	Pt1000	Ni1000LG	NTC-1,8k
electrical circuit	Class B	Class A	Class AA	Class 1/5B	Class 1/10B	Class B	Class A		
1x 2-wire	11	12	13	14	15	16	17	77	78
1x 3-wire	22	23	24	25	26	27	28	80	81
1x 4-wire	33	34	35	36	37	38	39	83	84
2x 2-wire	44	45	46	47	48	49	50	86	87
2x 3-wire	55	56	57	58	59	60	61		
2x 4-wire	66	67	68	69	70	71	72		

Table 2 - Measuring insert / Measuring range

	Measuring insert	
Measuring range	Cable version	Cable in pipe
-50°C to +150°C	0	1
-50°C to +200°C	2	3
-50°C to +260°C	4	5
0°C to +400°C	6	7
Others	8	9

Table 3 - Terminal head

Type / Terminal head	Code
Battery powered indicator - GPA100	0
Terminal head Form B	1
Terminal head Form BUS	2
Terminal head Form BUZ	3
Terminal head Form BUSH	4
Terminal head Form BUZH	5
Terminal head Form NA	6
Terminal head Form DL (MA)	7
Terminal head BUZH with LED indicator	8
Others	9

Table 4 - Diameter and material of protection tube

	Material							
Diameter	1.4301	1.4401	1.4404	1.4571	1.4841	1.4541	1.4303	Others
3 mm	31	32	33	34	35	36	37	30
4 mm	41	42	43	44	45	46	47	40
5 mm	51	52	53	54	55	56	57	50
6 mm	61	62	63	64	65	66	67	60
7 mm	71	72	73	74	75	76	77	70
8 mm	81	82	83	84	85	86	87	80
9 mm	91	92	93	94	95	96	97	90
10 mm	01	02	03	04	05	06	07	09
11 mm	11	12	13	14	15	16	17	19
12 mm	21	22	23	24	25	26	27	29
15 mm	58	59	48	49	38	39	28	89
Others								00

Table 5 - Measuring tip

Shape of measuring tip	Code
Flat	0
Rounded	1
Tapered	2
Perforated	3
Cone (Concentric)	4
Oblique	5
Expanded	6
Others	9

Table 6 – Accessories / Transmitters

Temperature transmitters	Code
GT 5333A (output 420 mA)	PT1
GT 5331D (output 420 mA)	PT2
GT 5335A (output 420 mA + HART®)	PT3
Wireless transmitter 2,4 GHz or 868 MHz	PT6
Transmitter with voltage output 010 V	PT7
GT 5333BL (output 420 mA)	PT8
Others	PT9



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