



Temperature Sensor Glass Wire-Wound Resistance Element

Type G0
(-200°C to +400°C)



*Glass wire-wound for
severe applications*

APPLICATIONS

- Chemical and pharmaceutical industry
- Food industry
- H.V.A.C.
- Power generation plants
- Analytical equipment
- Aerospace industry
- Marine

SPECIAL FEATURES

- Small dimensions
- Good temperature stability
- Abrasion resistant
- High lead wire pull strength
- Resistance to harsh environments (acid, oil, solvent, etc.)

DESIGN

One or two platinum bands wound on a solid glass core and homogeneously sealed with external tube. The lead wire connection has high pull strength.

NOMINAL VALUE

- 100 Ω at 0°C
- Temperature coefficient $\alpha = 3850$ ppm/K

TOLERANCE CLASS

- IEC 751 : class B, A and B/3
- Closer tolerances in restricted temperature range

TEMPERATURE RANGE

- From -200°C to +400°C

CONNECTION WIRES

- Platinum coated nickel wires

HOUSING ADVICE

- May be used in most liquids without protection (water, oil, solvent, acid)

RESISTANCE AND STABILITY

- High vibration resistance
- Resistant to external forces and pressure

OPTIONS

- Lead wire length
- Extension cable
- Glass shape (diameter, length, bend, etc.)
- Ohmic values

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Standard Product

Type GO

Type	Designation	Reference	Nominal reference <i>(Ohm at 0°C)</i>	L	WL	D	AL1	AL2	A	Self-heating in air <i>(K/mW)</i>	Response time			
											Water v = 0,4 m/s		Air v = 1 m/s	
											10,5	10,9	10,5	10,9
											<i>(s)</i>			

Class B

1Pt100	GO 1020	SB0789	100	10	6	2,0	15	-	0,25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0865	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0862	100	15	9,5	4,5	15	-	0,25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0870	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0873	100	30	21	4,5	15	-	0,25	0,09	0,80	2,40	16	40
2Pt100	GO 4845	SB0765	100	48	35	4,5	10	12	0,25	0,09	0,80	2,40	16	40

Class A

1Pt100	GO 1020	SB0794	100	10	6	2,0	15	-	0,25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0866	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0863	100	15	9,5	4,5	15	-	0,25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0871	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0874	100	30	21	4,5	15	-	0,25	0,09	0,80	2,40	16	40

Class B/3

1Pt100	GO 1020	SB0795	100	10	6	2,0	15	-	0,25	0,26	0,14	0,35	7	21
1Pt100	GO 1327	SB0867	100	13	9	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 1545	SB0864	100	15	9,5	4,5	15	-	0,25	0,09	0,80	2,40	16	40
1Pt100	GO 2327	SB0872	100	23	16	2,7	15	-	0,25	0,11	0,40	1,30	13	25
1Pt100	GO 3045	SB0875	100	30	21	4,5	15	-	0,25	0,09	0,80	2,40	16	40

DIMENSIONAL TOLERANCES :

L	(length of body)	= ± 2 mm
D	(diameter of body)	= ± 0,2 mm
AL	(connection wire length)	= ± 2 mm
A	(connection wire diameter)	= ± 0,02 mm

