

Glass Wire Wound sensor Type GO



- Temperature sensor
- Large temperature range
From -200°C to +400°C
- High vibrations resistant
- Resistant to external forces and pressures
- Small dimensions
- Good temperature stability
- Abrasion resistance
- Good pull up force resistance of leads
- Resistance to aggressive environment (acid, oil, solvent)

DESCRIPTION

One or two platinum bands wounded on solid glass core and homogeneously sealed with external tube.

FEATURES

- Nominal Value: 100 Ω at 0°C
Tolerance according to IEC 60751: class W 0.3, W 0.15 and W 0.1
Temperature coefficient $\alpha = 3850$ ppm/K
Closer tolerances in restricted temperature ranges
- Connection Wires: Platinum coated nickel wires
- The lead wires connection is pull up force resistant
- Housing Advise: Can be used in most of liquids without protection (water, oil, solvent, acid...).
- Options: - Lead wires length
- Extension cable
- Glass shape (diameter, length, bent)
- Ohmic values

APPLICATIONS

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

Glass Wire Wound sensor Type GO

PERFORMANCE SPECIFICATIONS

Type	Designation	Reference	Nominal reference (Ohm at 0°C)	L WL D AL1 AL2 A (Dimensions in mm)						Self-heating in air (K/mW)	Response time (s)			
				Water v = 0,4 m/s		Air v = 1 m/s								
Tolerance Class W 0.3 = ± (0.3+0.005 Itl) From -196°C to + 400°C														
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
Tolerance Class W 0.15 = ± (0.15+0.002 Itl) From -100°C to + 250°C														
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
Tolerance Class W 0.1 = ± (0.1+0.0017 Itl) From 0°C to + 150°C														
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

VALUES FOR PT100

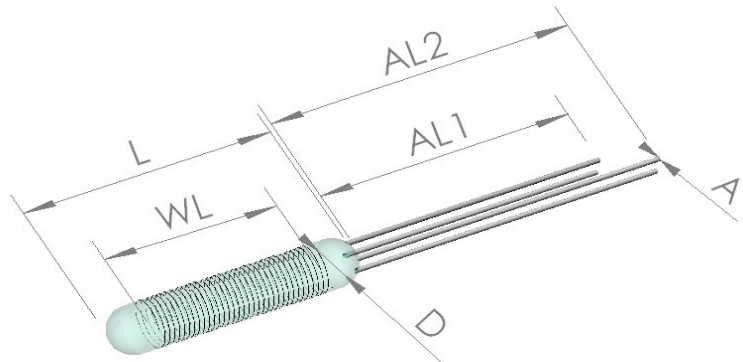
°C	Ohms	Ohms/°C	°C	Ohms	Ohms/°C
-200	18.52	0.432	150	157.33	0.374
-150	39.72	0.417	200	175.86	0.368
-100	60.26	0.405	250	194.10	0.362
-50	80.31	0.397	300	212.05	0.356
0	100	0.391	350	229.72	0.350
50	119.40	0.385	400	247.09	0.345
100	138.51	0.379			

Glass Wire Wound sensor Type GO

BLOCK DIAGRAM

DIMENSIONAL TOLERANCES:

L (length of body)	= ± 2mm
D (diameter of body)	= ± 0.2mm
AL (connection wire length)	= ± 2mm
A (connection wire diameter)	= ± 0.02 mm



ORDERING INFORMATION

NORTH AMERICA

MEAS - Shrewsbury
910 Turnpike Road
Shrewsbury, MA 01545
United States
+1 508-842-0516
+1 508-842-0342
temperature.cs.amer@meas-spec.com

EUROPE

MEAS - France
48, rue de Frégy
77610 Fontenay Trésigny
France
Tel: +33(0) 1 64 42 52 52
Fax: +33(0) 1 64 42 63 17
sales.ftny.fr@meas-spec.com

ASIA

MEAS - (China) Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park
(North) Nanshan District,
Shenzhen 518107 China
Tel: +86 755 33305088
Fax: +86 755 33305099
temperature.cs.asia@meas-spec.com

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.