GLASS WIRE WOUND SENSOR TYPE GX

RTD Temperature Sensor

SPECIFICATIONS

- **Temperature sensor**
- **Large temperature range**
  From -200°C to +400°C
- **No hysteresis**
- **High vibrations resistant**
- **Resistant to external forces and pressures**
- **Small dimensions**
- **High temperature stability**
- **Short response time**

One or two platinum bands layout are wounded on a glass tube and are protected from environment by a glass layer

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 α = 3850 ppm/K
  Closer tolerances in restricted temperature range
- Connection wires: Platinum coated nickel
- The lead wires connection is pull up force resistant
- Housing advise: To be used preferably in dry environment
- Options: - Lead wires length
  - Extension cable

APPLICATIONS

- Environments subject to high vibrations
- Cryogenics
- Accurate temperature measurement with high temperature gradient
- Limited mounting space required
- Food industry
- H.V.A.C.

PERFORMANCE SPECIFICATIONS

Type	Desi-gnation	Reference	Nominal reference (Ohm at 0°C)	L	WL	D	AL1	AL2	A	Self-heating in air (K/mW)	Response time (s) Water v = 0,4 m/s t0,5	Water v = 0,4 m/s t0,9	Air v = 1 m/s t0,5	Air v = 1 m/s t0,9
				(Dimensions in mm)										
Tolerance Class W 0.3 = ± (0.3+0.005 Itl) From -196°C to + 400°C														
1Pt100	GX 518	32 205 108	100	5	3	1,8	10	-	0,20	0,36	0,14	0,35	8	30
1Pt100	GX 1013	32 205 113	100	10	6	1,3	10	-	0,20	0,39	0,4	1,30	4	12
1Pt100	GX 1018	32 205 118	100	10	6	1.8	10	-	0,20	0.36	0.14	0.35	8	30
1Pt100	GX 1218	34 015 120	100	12	3	1.8	6	-	0,20	0.36	0.14	0.35	8	30
1Pt100	GX 1513	SB0921	100	15	6	1.3	10	-	0,20	0.39	0.4	1.3	4	12
2Pt100	GX 1528	32 205 228	100	15	7	2,8	10	12	0,25	0,20	0,3	1,0	12	45
Tolerance Class W 0.15 = ± (0.15+0.002 Itl) From -100°C to + 250°C														
1Pt100	GX 518	32 205 074	100	5	3	1,8	10	-	0,20	0,36	0,14	0,35	8	30
1Pt100	GX 1013	32 205 458	100	10	6	1,3	10	-	0,20	0,39	0,4	1,30	4	12
1Pt100	GX 1218	34 015 121	100	12	3	1.8	6	-	0,20	0.36	0.14	0.35	8	30
1Pt100	GX 1513	SB0920	100	15	6	1.3	10	-	0,20	0.39	0.4	1.3	4	12
2Pt100	GX 1528	32 205 241	100	15	7	2,8	10	12	0,25	0,20	0,3	1,0	12	45
Tolerance Class W 0.1 = ± (0.1+0.0017 Itl) From 0°C to + 150°C														
1Pt100	GX 518	32 205 101	100	5	3	1,8	10	-	0,20	0,36	0,14	0,35	8	30
1Pt100	GX 1013	32 205 463	100	10	6	1.3	10	-	0.20	0.39	0.4	1.3	4	12
1Pt100	GX 1218	34 015 123	100	12	3	1.8	6	-	0,20	0.36	0.14	0.35	8	30
1Pt100	GX 1513	SB0919	100	15	6	1.3	10	-	0,20	0.39	0.4	1.3	4	12