



Temperature Sensor Glass Wire-Wound Resistance Element

Type GX
(-200°C to +400°C)



*Glass wire-wound
suitable for high
vibration applications*

APPLICATIONS

- Environments subject to high vibration
- Cryogenics
- Accurate temperature measurements in high temperature gradients
- Limited mounting space required
- Food industry
- H.V.A.C.

SPECIAL FEATURES

- No hysteresis
- Small dimensions
- High temperature stability
- Short response time
- High vibration resistance

DESIGN

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

- For use in dry environments only

RESISTANCE AND STABILITY

- No hysteresis
- High vibration resistance
- Resistant to external forces and pressure

OPTIONS

- Lead wires length
- Extension cable

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Standard Product

Type GX

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

Class B

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

Class A

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

Class B/3

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	1,30	4	12
1Pt100	GX 1513	SB0919	100	15	6	1,3	10	-	0,20	0,39	0,4	1,3	4	12

DIMENSIONAL TOLERANCES :

L	(length of body)	= ± 1mm
D	(diameter of body)	= +0,1-0,3mm
AL	(connection wire length)	= ± 2mm
A	(connection wire diameter)	= ± 0,02 mm

