

Platinum Sensors



Glass Wire Wound Platinum RTD Element

Type GX
(-200°C to +400°C)

DESIGN	One or two platinum bands are wound on a glass tube and are protected from the environment by a glass layer. The lead wires connection is pull up force resistant.
APPLICATIONS	<ul style="list-style-type: none">- Environments subject to high vibrations- Cryogenics- Accurate temperature measurement with high temperature gradient- Limited mounting space required- Food industry- H.V.A.C.
SPECIAL FEATURES	<ul style="list-style-type: none">- No hysteresis- Small dimensions- High temperature stability- Short response time- High vibration resistance
NOMINAL RESISTANCE	<ul style="list-style-type: none">- 100 Ω at 0°C- Temperature coefficient $\alpha = 3850$ ppm/K
TOLERANCE CLASS	<ul style="list-style-type: none">- DIN EN 60751 : class B (W 0.3), A (W 0.15) and 1/3B (W0.1)- Closer tolerances in restricted temperature range
TEMPERATURE RANGE	<ul style="list-style-type: none">- From -200°C to +400°C
CONNECTION WIRES	<ul style="list-style-type: none">- Platinum coated nickel wires
HOUSING	<ul style="list-style-type: none">- To be used preferably in a dry environment
STABILITY	<ul style="list-style-type: none">- No hysteresis- High vibration resistant- Resistant to external forces and pressures
OPTIONS	<ul style="list-style-type: none">- Connection wire length- Extension cable in 2, 3 or 4 wire connection

Attention : All technical data and recommendations concerning the products and services of our firm are for information purposes only. No data given in our datasheets guarantee particular properties to any products. They represent values obtained by experience and are intended as guidelines only. We reserve the right to make alterations to illustrations and technical data printed as a result of on-going development.

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Supplied by

Platinum Sensors Ltd, 6 Drakeleys Field, Milland, Liphook, GU30 7NH, England

Tel: (44) 01428 741255 Fax: (44) 01428 741225 sales@platinumsensors.co.uk www.platinumsensors.co.uk

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Type GX (-200°C to +400°C)

Type	Model	Part Number	Nominal Resistance (Ohms at 0°C)	L	WL	D	AL1	AL2	A	Self Heating (in still air) (K/mW)	Response Time (seconds)			
											Water V = 0.4m/s		Air V = 1 m/s	
											t 0.5	t 0.9	t 0.5	t 0.9

Tolerance Class B (W 0.3) From -196°C to +400°C

1Pt 100	GX518	32.205.108	100	5	3	1.8	10	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1013	32.205.113	100	10	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12
1Pt 100	GX1018	32.205.118	100	10	6	1.8	10	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1218	34.015.120	100	12	3	1.8	6	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1513	SB0921	100	15	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12
2Pt 100	GX1528	32.205.228	100	15	7	2.8	10	12	0.25	0.20	0.30	1.00	12	45

Tolerance Class A (W 0.15) From -100°C to +250°C

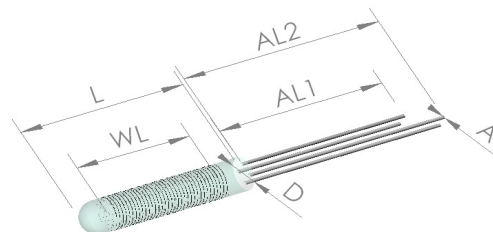
1Pt 100	GX518	32.205.074	100	5	3	1.8	10	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1013	32.205.458	100	10	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12
1Pt 100	GX1218	34.015.121	100	12	3	1.8	6	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1513	SB0920	100	15	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12
2Pt 100	GX1528	32.205.241	100	15	7	2.8	10	12	0.25	0.20	0.30	1.00	12	45

Tolerance Class 1/3B (W 0.1) From 0°C to +150°C

1Pt 100	GX518	32.205.101	100	5	3	1.8	10	-	0.20	0.36	0.14	0.35	8	30
1Pt 100	GX1013	32.205.463	100	10	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12
1Pt 100	GX1513	SB0919	100	15	6	1.3	10	-	0.20	0.39	0.40	1.30	4	12

DIMENSIONAL TOLERANCES

- L (length of body) = +/-1 mm
- D (diameter of body) = +0.1/-0.3 mm
- AL (connection wire length) = +/-2 mm
- A (connection wire diameter) = +/-0.02 mm



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