

Ceramic Wire-Wound Platinum RTD Elements Class A (IEC751), Alpha = 0.00385

The "KN" Series RTDs are suitable for applications requiring extremely high temperature stability and high temperature shock resistance. Deviation from the IEC751 characteristic curve is minimal over the entire temperature range. The small diameter tolerances of the sensor body allow easy installation in protective tubes. Applications are found in chemical and power generation plants and with analytical equipment.

To Order									
Dimensions [†] in millimeters (1 mm = 0.03937")	Nominal Resistance (Ohms)	Temperature Range, °C (°F)	Model Number	Self Heating Error in C°/mW Flowing Air V = 1 m/sec	Response TinFlowing WaterV = 0.4 m/sec50%90%ResponseResponse		ne in Seconds Moving Air V = 1 m/sec 50% 90% Response Response		
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN1515CLA	0.08	0.2	0.6	5	18	
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN2515CLA	0.08	0.2	0.6	5	18	
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN3045CLA	0.21	0.2	0.6	2.5	9	
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN3026CLA	0.06	0.3	0.7	15	50	
→ 30 → †4.5	2 x 100	-200 to 600 (-330 to 1110)	2PT100KN3045CLA*	0.08	0.2	0.6	5	18	
	2 x 100	-200 to 600 (-330 to 1110)	2PT100KN3026CLA*	0.06	0.3	0.7	15	50	

† Leads are 10 mm long.

* Dual element.

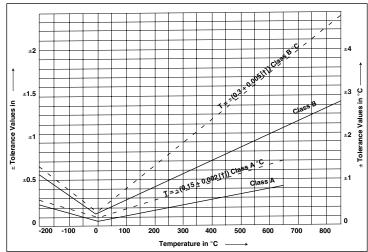
Ordering Examples: 1PT100KN1515CLA, 1 x 100 Ω ceramic wire-wound element. **2PT100KN3026CLA,** 2 x 100 Ω ceramic wire-wound.

Discount Schedule

(for Class A and Class B elements)
1 to 4 units Net
5 to 10 units4%
11 to 24 units
25 to 49 units
50 to 99 units11%
100 units and up

See omega.com For Our Complete Line of RTD Elements Enlarged to show construction. See above for dimensions.

All RTD elements come standard with 10 or 15 mm leads.
Welded insulated extension leads available.
Pricing is dependent on lead style (see omega.com).



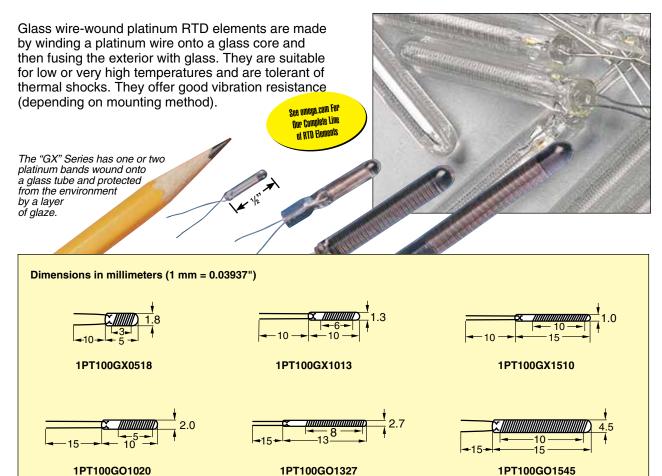
Tolerar	ncé				
Temp	Class A		Class B		
Deg °C	Ω	°C	Ω	°C	7 11
-200	±0.24	±0.55	±0.56	±1.3	
-100	±0.14	±0.35	±0.32	±0.8	
0	±0.06	±0.15	±0.12	±0.3	
100	±0.13	±0.35	±0.30	±0.8	South State
200	±0.20	±0.55	±0.48	±1.3	
300	±0.27	±0.75	±0.64	±1.8	
400	±0.33	±0.95	±0.79	±2.3	
500	±0.38	±1.15	±0.93	±2.8	
600	±0.43	±1.35	±1.06	±3.3	1
650	±0.46	±1.45	±1.13	±3.6	
700			±1.17	±3.8	
800			±1.28	±4.3	
850			±1.34	±4.6	

-200 to 600°C

(-330 to 1110°F)

Glass Wire-Wound Pt RTD Elements Class B (IEC751), Alpha = 0.00385





	Newsing	-	Self-Heating Error in	Respo Flowing Water V = 0.4 m/sec		onse Time in Seconds Moving Air V = 1 m/sec		
Model No.	Nominal Resistance (ohms)	Temperature Range, °C (°F)	C°/mW Flowing Air V = 1 m/sec	50% Response	90% Response	50% Response	90% Response	
1PT100GX0518	1 x 10	-220 to 400 (-365 to 750)	0.36	0.2	0.8	8.0	30.0	
1PT100GX1013	1 x 100	-220 to 400 (-365 to 750)	0.39	0.2	0.5	4.0	12.0	
1PT100GX1510	1 x 100	-220 to 400 (-365 to 750)	0.36	0.2	0.4	2.0	7.0	
1PT100GO1020	1 x 100	-220 to 400 (-365 to 750)	0.26	0.14	0.35	7.0	21.0	
1PT100GO1327	1 x 100	-220 to 400 (-365 to 750)	0.11	0.40	1.30	13.0	25.0	
1PT100GO1545	1 x 100	-220 to 400 (-365 to 750)	0.09	0.80	2.40	16.0	40.0	

Ordering Example: 1PT100GX0518, 1 x 100 Ω glass wire-wound Pt RTD element,.