

# 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.

**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

Dimensions† in millimeters (1 mm = 0.03937")	Nominal Resistance (Ohms)	Temperature Range, °C (°F)	Model Number	Price	Self Heating Error in C°/mW Flowing Air V = 1 m/sec	Response Time in Seconds			
						Flowing Water V = 0.4 m/sec		Moving Air V = 1 m/sec	
						50% Response	90% Response	50% Response	90% Response
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN1515CLA	\$12	0.08	0.2	0.6	5	18
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN2515CLA	13	0.08	0.2	0.6	5	18
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN3045CLA	21	0.21	0.2	0.6	2.5	9
	1 x 100	-200 to 600 (-330 to 1110)	1PT100KN3026CLA	21	0.06	0.3	0.7	15	50
	2 x 100	-200 to 600 (-330 to 1110)	*2PT100KN3045CLA	56	0.08	0.2	0.6	5	18
	2 x 100	-200 to 600 (-330 to 1110)	*2PT100KN3026CLA	39	0.06	0.3	0.7	15	50

† Leads are 10 mm long. \* Dual element.

Ordering Example: 1PT100KN1515CLA, 1 x 100 Ω ceramic wire-wound element, \$12.

## Discount Schedule

(for Class A and Class B elements)

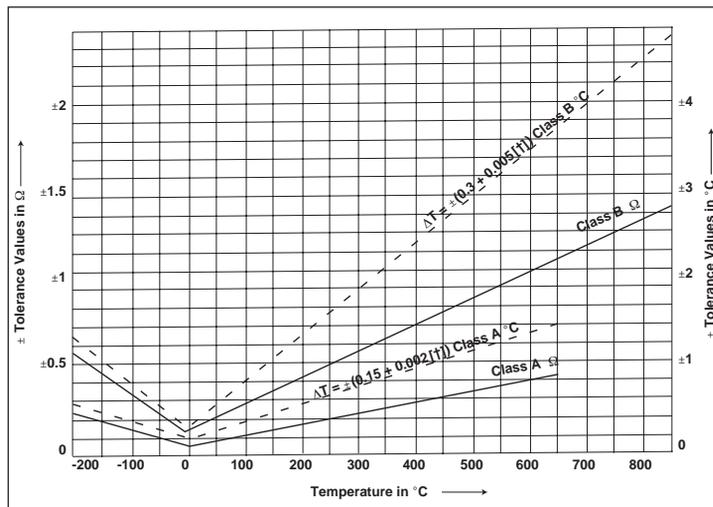
1 to 4 units	Net
5 to 10 units	.4%
11 to 24 units	.6%
25 to 49 units	.10%
50 to 99 units	.11%
100 units and up	.13%

**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 page C-30).



## Tolerance

Temp Deg °C	Class A		Class B	
	Ω	°C	Ω	°C
-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
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
650	±0.46	±1.45	±1.13	±3.6
700			±1.17	±3.8
800			±1.28	±4.3
850			±1.34	±4.6

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters