



## TEMPERATURES SENSORS AND TRANSMITTERS

### INTRODUCTION

NK Instruments Pvt. Ltd. manufacture Probe type Temperature Sensor for measurement of process temperature.

RTD and Thermocouple are the very common type of Temperature Sensors.

We also provide Temperature Transmitter to enable to carry the output from the Temperature Sensor at very long distances e.g. up to controller or, PLC. These Transmitters can be Head mounted, DIN RAIL mounted or, Panel / Field mounted type with Digital Readout.



### FEATURES

- pT-100, pT-200, pT-500, pT-1000 and Thermocouples - K, J & T types are available in simplex as well as duplex types.
- All these sensors are available in SS 304, SS316, SS310 as well as Inconel 600 material.
- These electrodes are available in standard insulation (MGO) as well as Mineral insulated.
- Total temperature sensing range coverage from -50 up to 1200 degree C.
- Leaf type Temperature Sensors for surface Temperature measurement application, commonly used for rollers.

### VARIOUS DESIGNS & OPTIONS

RTD's and Thermocouples are manufactured in various designs, which are almost specific for typical applications. We also manufacture them as per process demands. e.g. LEAF type, RING type, BIONET type, SPRING LOADED BIONET type, CLAMP type etc.

- We manufacture the Temperature Sensors in various Diameters starting from 1 mm up to 25 mm, Lengths can be from 10 mm up to many meters long, Mounting types can be any type of Fixed Threaded connection, Threaded connection with Ferrule Fitting or, any type of Flange connection, Terminals can be just Flying Leads or, can be housed in Aluminium Housing, SS Housing or, Flameproof Housing.
- We also provide varieties of Temperature Transmitters ; Head mounted Temperature Transmitter (which can be mounted inside of Terminal Housing of Temperature Sensor), DIN RAIL mounted Temperature Transmitter, Digital Temperature Indicating Transmitter which can be mounted in the top of the Temperature Sensor in 4 pin DIN connector, Panel or, Wall mounted Temperature Indicating Transmitter or, Flameproof Temperature Indicating Transmitter.

Continuous efforts for product development may necessitate changes in these details without notice.

#### CONTACT DETAILS

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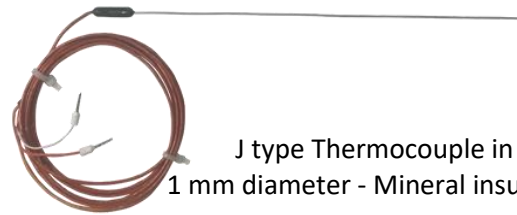
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## TYPES OF TEMPERATURE SENSORS :



Thermocouple - Mineral Insulated with Flying Leads



J type Thermocouple in 1 mm diameter - Mineral insulated



Leaf type Thermocouple



Thermocouple with SS braided cable for high temperature and Bionet type connector



Thermocouple with 2 Pin Round Connector



Duplex Thermocouple with Flying Leads



Thermocouple with Aluminium Terminal Housing & Flange Process connection



Thermocouple with Flameproof Terminal Housing & Ferrule type Process connection



K type Thermocouple with push type mounting and Aluminium Terminal Housing

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# NK Instruments Pvt. Ltd.



Process Control Instruments for Indication and Control of:

PRESSURE	VACCUM	DP	FLOW	VELOCITY	LEVEL	TEMPERATURE	CONDUCTIVITY	pH	VIBRATION
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RTD with spring loaded arrangement



Ring type RTD



Portable RTD for food industries



Miniature RTD with Flying Leads



RTD with High Temperature Cable



RTD with DIN type Indicator with Transmitter & PNP  
(To be mounted on 4 pin connector)



RTD with SS Terminal Housing



RTD with Adjustable Ferrule nut Connection with Thermo-well



RTD with TC connection with Miniature Aluminium Terminal Housing



RTD with push type mounting And Miniature Aluminium Terminal Housing

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