



NASHA technomation

Mfg. & Dealing in Process Control Instruments

TEMPERATURE SENSORS – Pt-100 , THERMOCOUPLES

NASHA technomation is a quality manufacturer of a full line of Industrial Temperature Sensors and related accessories. Our products include Thermocouples, RTD's (Resistance Temperature Detectors), Thermowells, Thermocouple Wire and other accessories. We supply a wide range of instruments with a variety of devices to overcome the problems which companies face with temperature measurement and control. We deal with Industries include Food Industry, Science and R&D, Power generation plants, Paints and color industries, Petrochemical industries, Plastics, Automotive. Above is just an example of what our products can be used for. We can design, supply, repair and calibrate a full range of temperature sensors and have many years of experience in satisfying customer needs. Our engineers are experienced in solving temperature sensing problems and designing temperature sensor solutions.



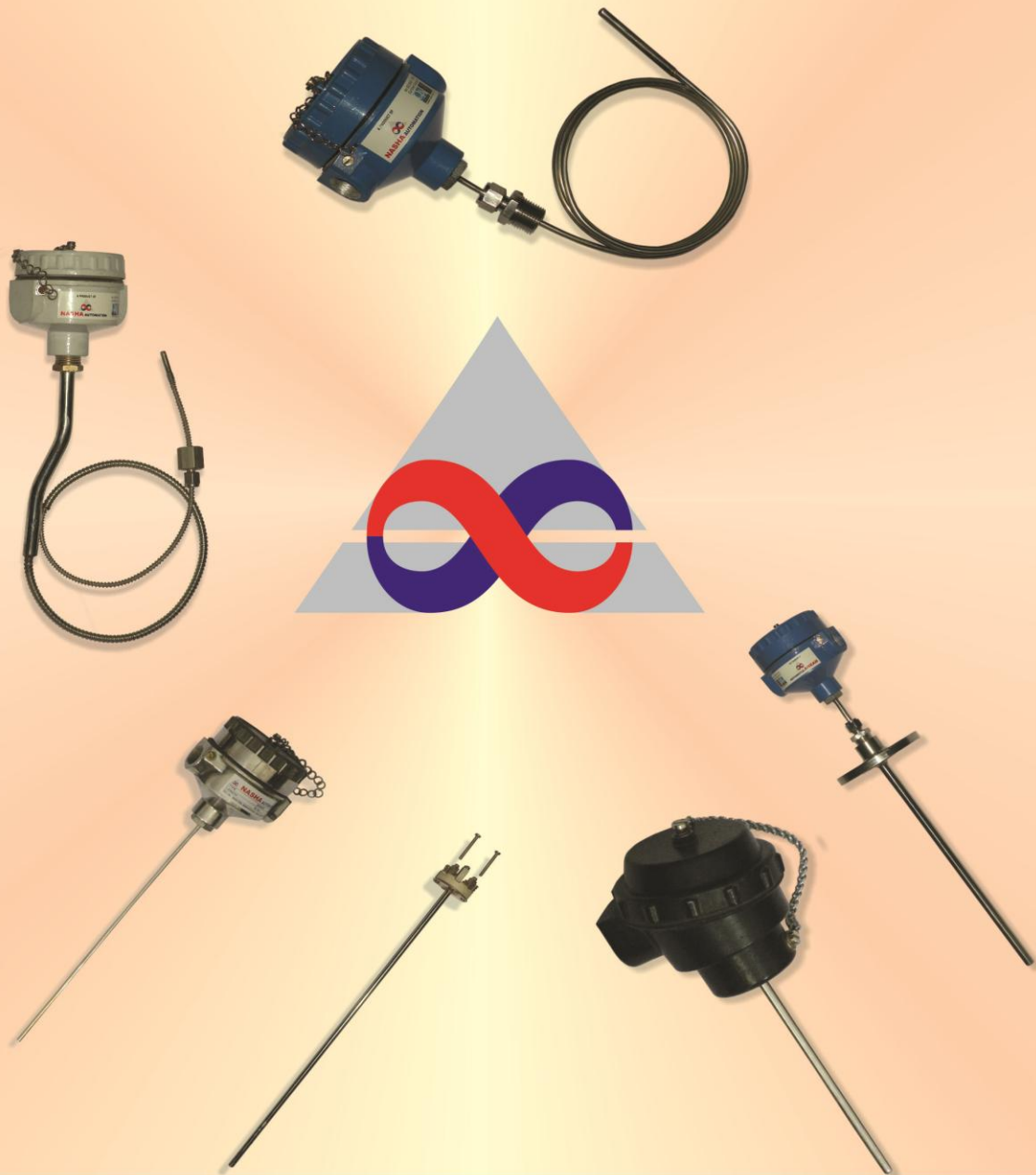
NASHA technomation has extensive experience supplying temperature measurement solutions to the petrochemical industry. We have worked closely with a number of companies to design temperature probes for use in plants such as Partial Oxidation Reactors (POX) and Catalyst Plants. We can design reliable and accurate multi-point probes for monitoring processes. We can design very heavy-duty probes for corrosive atmospheres that will last longer than any of our competitors. Often though, relatively low temperature sensors like resistance thermometers are used in the petrochemicals industry. We have a good list of the possible shapes and sizes, but if you can't find a suitable sensor or require a special design we are ready to meet your sensing needs with our custom-tailored manufacture sensor to your exacting specification.

Thermo Sensors thermocouple element types include:

- Type E Chromel-Constantan Thermocouple
- Type J Iron-Constantan Thermocouple
- Type K Chromel-Alumel Thermocouple
- Type N Nicrosil-Nisil Thermocouple
- Type R Platinum-Platinum 13% Rhodium Thermocouple
- Type S Platinum-Platinum 10% Rhodium Thermocouple
- Type B Platinum 6% Rhodium-Platinum 30% Rhodium Thermocouple
- Type T Copper- Constantan Thermocouple

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PT-100



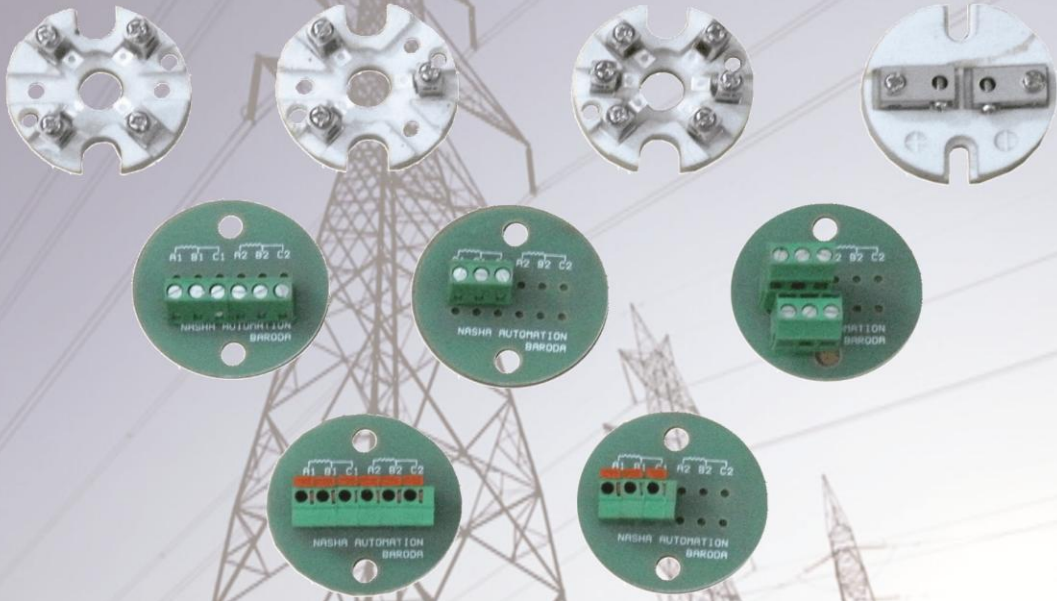
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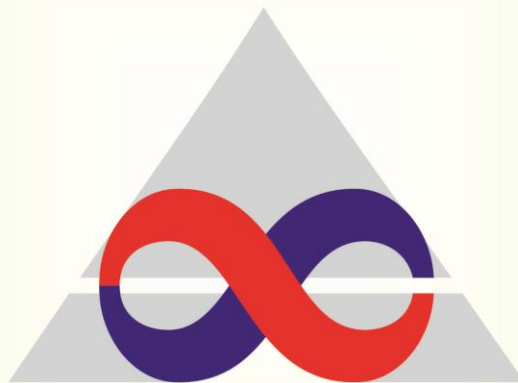
**MFG. & DEALING IN PROCESS CONTROL
INSTRUMENTS & INSTRUMENTATION CONTRACTOR**

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CONTROL INSTRUMENTS &
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Process Control Instruments
& Instrumentation Contractor

NASHA AUTOMATION & NASHA technomation , are well Established Companies formed by highly experienced instrumentation professionals in the field of project and Maintenance and Manufacturer in Petrochemical & Chemical Industries Cement Industries , Pharmaceutical Industries , Steel Industries and Power PlantWe provide total automation solutions to all industries such as Chemical Petrochemical, Power, Cement, etc.

INDUSTRIAL SENSORS IN SEAMLESS TUBES AND MINERAL INSULATED WIRE :



Sensor : Pt-100 , Pt-1000 ,K, J, R, S, T in simplex or duplex , Class A or Class B MOC : SS 304 , SS 316 ,Hest alloy C, Inconal 600 , Inconal 800 ,HRS 446, Monel

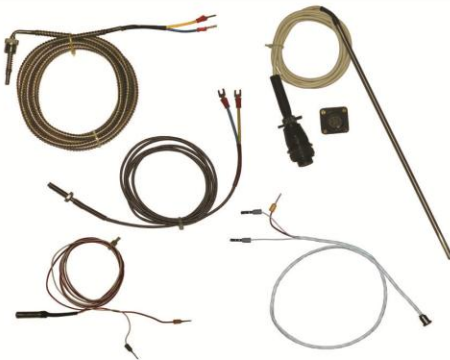
O.D. : a. Seamless tube : 2.5,3,4,5,6,8,10,12,14,16,18,19,21,22... In mm

b. Mineral Insulated : 4 X 5 , 5X6 , 6X8 in mm

Process connection : $\frac{1}{4}$ " , $\frac{1}{2}$ " , $\frac{3}{4}$ " , 1" BSP M or F ,NPT M or F , tri clover ,Flange Nipple Union Nipple

Enclosure : Aluminum die cast in weather proof , ex-proof

INDUSTRIAL SENSORS IN TEFLON INSULATED WIRE AND FLEXIBLE CONDUTE :



Sensor : Pt-100 , Pt-1000 ,K, J, R, S, T in simplex or duplex , Class A or Class B

MOC : SS 304 , SS 316 ,Hest alloy C, Inconal 600 , Inconal 800 ,HRS 446, Monel

O.D. : a. Seamless tube : 2.5,3,4,5,6,8,10,12,14,16,18,19,21,22.... In mm

b. Mineral Insulated : 4 X 5 , 5X6 , 6X8 in mm

Process connection : $\frac{1}{4}$ " , $\frac{1}{2}$ " , $\frac{3}{4}$ " , 1" BSP M or F ,NPT M or F

Extension wire : Teflon / Teflon insulated , Teflon / Teflon SS bridged , Teflon/fiber/ SS bridged , Teflon/fiber insulated

INDUSTRIAL SENSORS IN SEAMLESS HEAVY DUTY TUBES OR BAR :



Sensor : K, J, R, S, T in simplex or duplex , Class A or Class B
MOC : SS 316 ,Hest alloy C, Inconal 600 , Inconal 800 ,HRS 446, Monel , Ceramic

O.D. : a. Seamless tube : 14,16,18,19,21,22.... In mm

b. Mineral Insulated : 4 X 5 , 5X6 , 6X8 in mm

Process connection : 1" BSP M or F ,NPT M or F ,Flange

Enclosure : Aluminum die cast in weather proof , ex-proof

Quality Control Standard Testing

- 100% testing of all sensors.
- Each sensor is checked for proper output at room temperature as well as an elevated temperature.
- Insulation resistance of every sensor is checked.
- Each sensor is checked by QC personnel to assure the the physical sensor matches the part number, i.e. sensor type, fitting options, lengths, etc.
- When a sensor passes complete inspection, it is given an engraved traceability number.
This number allows Thermo Sensors to resurrect a material test report, calibration data and part number of unit.

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