



**CUSTOMERISED
SOLUTIONS**

THERMOCOUPLES FOR FOUNDRIES

Temperature Sensors
To Meet Your Industry Needs



www.eurekaengg.com



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ABOUT US

Eureka Engineering Enterprises (Quality temperature sensors since 2000), is an ISO 9001-2015 certified, leading manufacturer of Temperature sensing and control systems founded by technocrats with their factory located at MIDC Bhosari, Pune. The company handles global, as well as national clientele. The factory is equipped with dynamic and autonomous machinery like Deep Hole Drilling Machine, CNC Turning Machine, Lathe Machines, TIG Welding for accurate machining. Their manufacturing program in a state-of-the-art manufacturing facility includes Thermocouples (K, N, J, N, R, S, T, E, and B types), Resistance Temperature Detectors (RTDs), Thermowells (Bar stock, Fabricated and Customized), Temperature Indicators, Controllers, and PID Controllers, etc. Eureka stands on three central pillars of – Quality, Value, and Delivery.

Leading manufacturer of Temperature sensing and control systems founded by technocrats



2000



State-of the art manufacturing factory located at MIDC Bhosari, Pune

THREE PILLARS FOR EUREKA MOMENT

Quality - Value - Delivery



We are an ISO 9001:2008 certified company specializing in manufacturing and supplying temperature measurement and control systems. We help improve productivity and provide growth opportunities to employees and suppliers while adhering to business philosophy of Total Quality Management. We have appropriate infrastructure & technical expertise supported by qualified and experienced engineers.



At Eureka, we believe in providing quality at optimum cost. Our manufacturing program includes Resistance Temperature Detectors (RTDs), Thermocouples (J, K, N, R, S, T, E, and B types), Thermowells (Bar stock, Fabricated and Customized), Temperature Indicators, Controllers, and PID Controllers etc. Our instruments have been successfully employed in various Process control Industries.



In today's world, speed is the most sought after parameters of reliability. We strive to deliver within proposed time frame and ensure that the delivery of the products are within reasonable duration so that our customers can trust us in long term. Today, we take pride in announcing us as one of the most trusted manufacturers and suppliers of Temperature measurement and control systems.

SINCE 1982

ISO 9001-2015
certified by
TUV Nord



CE Marking certification
by Ente Certificazione
Macchine Srl, Italy



2020

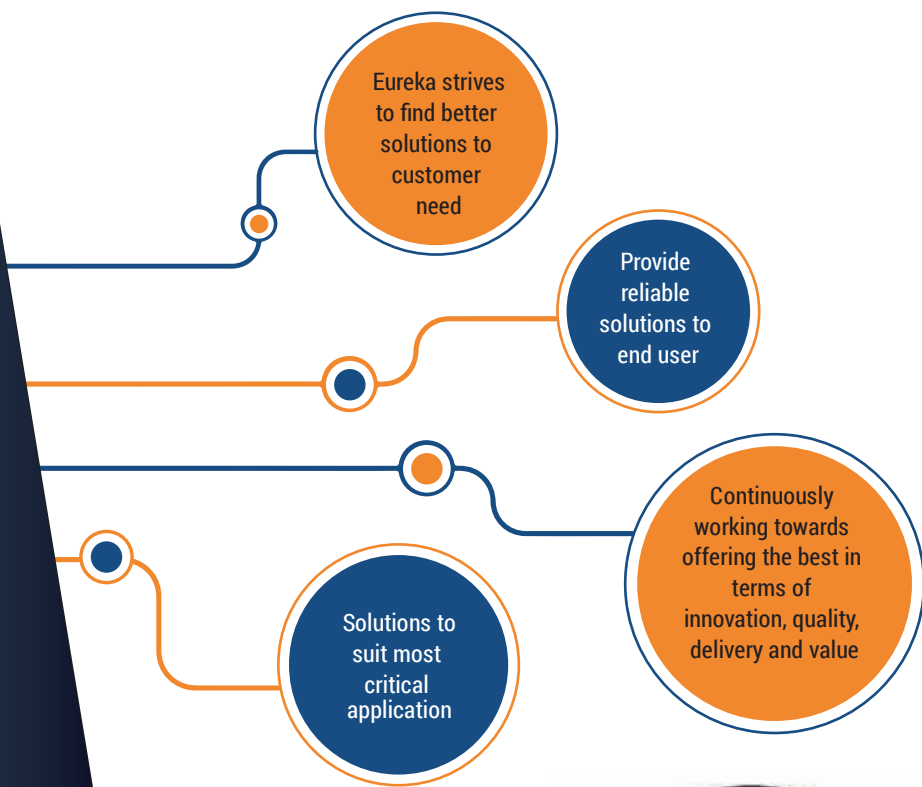


50 + number of
employees working
to give standard quality
products

Annual turnover
crosses Rs.83 million

PROPELLING INNOVATIONS

Besides standard products, we have capabilities to fulfill almost any custom design requirement in temperature sensing



At Eureka we thrive to deliver quality products at competitive price and prompt delivery lead by dedicated workforce in a state of the art manufacturing facility where 'Therma' stands as a leading brand manufacturer of Temperature Sensing Instruments



MANOJ KHATAN

Managing Director

THERMOCOUPLES FOR FOUNDRIES

In foundry, Castings are produced by melting the metal in a furnace , pouring the molten metal in to a Mold and then it is cooled & solidified to form the shape.

- ▶ **Ferrous:** Iron & Steel.
- ▶ **Non Ferrous Foundries:** Aluminum, Brass, Copper, Nickel, Tn, lead, and Zinc



Types of Castings are - Sand casting, Investment casting, Permanent Mold Casting, Die Casting & Continuous Casting ...etc.
 Among many Non Ferrous Metals, Aluminium castings components are widely used such as – Engine components, Auto Electricals, Transmission components, Gear Boxes, Covers, Pump & Motor parts.

Precise Temperature sensing & control is very important to achieve quality Castings. Eureka Engineering manufactures , wide range of Thermocouples for Non Ferrous Castings , including many types of Protection Sheaths and Thermowells.

Immersion Thermocouples for Molten -Non Ferrous Metal

Type K, Mineral Insulated sensor, with choice of Long life, Robust protection sheaths. “ L ” Shaped with S.S Support pipe & IP 67 Head



Melting Furnace



Silicon Carbide sheath



Cast iron Sheath
Glass Enamel & Ceramic Coated

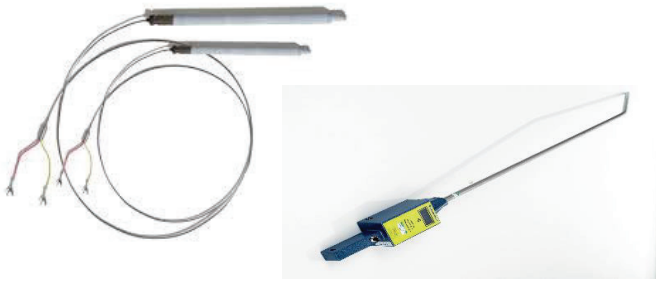


Graphite Sheaths.



Silicon Nitride Syalon Sheath

Therma Tip - Dipping Thermocouple



With Lance & Digital Indicator.

Quick and accurate measurement on Aluminium and other Non Ferrous molten metal.
Type K Thermocouple with Special Ferric Chromium Alloy sheath for longer life.
Protective coating for resistance to wetting for corrosion protection

Furnace – Roof Thermocouple

Measurement and control of Roof temperature is vital to maintain the Molten metal temperature as the heat transfer from Roof to bath is the major source. Type K & N Thermocouples . Mineral Insulated sensor. Inconel Protection Sheath, thick wall Drilled Bar Thermowell.



FERROUS FOUNDRIES – IRON & STEEL.

The Melting Temperature is around 1350oC-1530oC . The Furnaces widely used are Electric Arc Furnace, Induction Furnace and Gas fired Crucible furnace.
Molten metal temperature must be within close limits to achieve Quality Castings.



Because of the influence of slag, fumes and various boundary conditions, expendable Thermocouples are the most economical and effective way to measure the Temperature. Disposable immersion type thermocouple tips with cardboard tube for molten Steel. Type S / R / B , Paper Tube Length 300 to 1500MM, as required.



TEMPERATURE GAUGES

Bi-Metal Gauges: SS Body, Dial 3', 5" & above... 0 to 600 deg c All Angle Type.

Capillary Gages: Gas Filled 3 meter Capillary length with Bulbs of different lengths. Surface & Panel Mount. With Thermowells & Adaptors.



CABLES

THE TYPE OF CABLES

- ▶ Thermocouple Extension Cables &
- ▶ Compensating Cables
- ▶ RTD Cables
- ▶ Control Cables
- ▶ Instrumentation Cables
- ▶ Multi Pair, Multi Core, Twisted, Shielded, Braided & Armored

INSULATION TYPES

- ▶ **PVC:** Flame Retardant PVC insulation Provides good chemical resistance and suitable up to 105 deg c
 - ▶ **FEP / PFA / TFE :** Teflon insulation has excellent resistance to Abrasion, solvent, Chemical and Moisture, Suitable up to 260 deg c
 - ▶ **Fiber Glass:** Individual conductors and overall insulated with glass fiber, used in very high temperature, up to 700 deg C.
- Ceramic Fiber: Extreme high Temperature applications up to 1000 deg C.

ACCESSORIES



Flanges & Mounting Brackets:

Flanges: SS 304, 316, 310, 446.. Inconel 600, Incoly 800, Monel 400
Carbon Steel A 105, A 350

Standards:

ASME B 16.5, DN

Pressure Rating:

150#, 300#, 600#, 1500#, 2500#

Material:

Cast Iron, black powder coated finish.
Carbon Steel, black powder coated finish.
Clamping Pipe Sizes: 12mm, 15mm, 22mm, 32mm...and any other non standard size

Union, Nipples & Reducers:

Unions:

Material: SS 304 / 316, Galvanized Steel.

End Connections: Threaded, Socket Weld.

Sizes: 1/2", 3/4", 1" up to 2-1/2"...

Nipples:

Material: SS 304, 316, Galvanized Steel.

Sizes: Any required Length, 1/2", 3/4", 1" and above

Threads: BSP, NPT & metric.

Adaptors/Reducers:

Material: SS 304, 316, Brass.

Options: Various Male/Female Thred Options.



Ceramic Tubes & other Non Metallic Tubes:

Ceramic Tubes : Aluminium Porcelain - C610 & Recrystallised Alumina-C799

Sizes: from 6mm OD to 30mm OD

Silicon Nitrate Tube: Equivalent to Syalon

Silicon Carbide Tube:

Graphite Tube:

Compression Fittings & Cable Glands:

Compression Fittings: SS 316 & Brass, BSP & metric threads. To suit MI 1.5 mm to 12.5 mm OD.with Ferrules

Cable Glands: Brass cables glands-Nickel-plated & SS 316 Plastic Cable Glands. with strain relief, meeting IP & NEMA degree of protection,

Threading: BSP, NPT & Metric Also Available for hazardous Area, Ex Glands.



TEMPERATURE INDICATORS

PANEL MOUNT

FLAME PROOF

BIG DISPLAY

MULTI CHANNEL

PORTABLE

NON CONTACT PYROMETER



TEMPERATURE CONTROLLER

TEMPERATURE PID CONTROLLER

TEMPERATURE TRANSMITTER


TEMPERATURE SCANNER

CABLES & ACCESSORIES





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