

The leading manufacturer of
**Temperature Sensing and
Control Instruments**
SINCE 1982

THERMA
INSTRUMENTS

A Product of Eureka Engineering Enterprises

THERMOCOUPLES FOR CEMENT INDUSTRIES

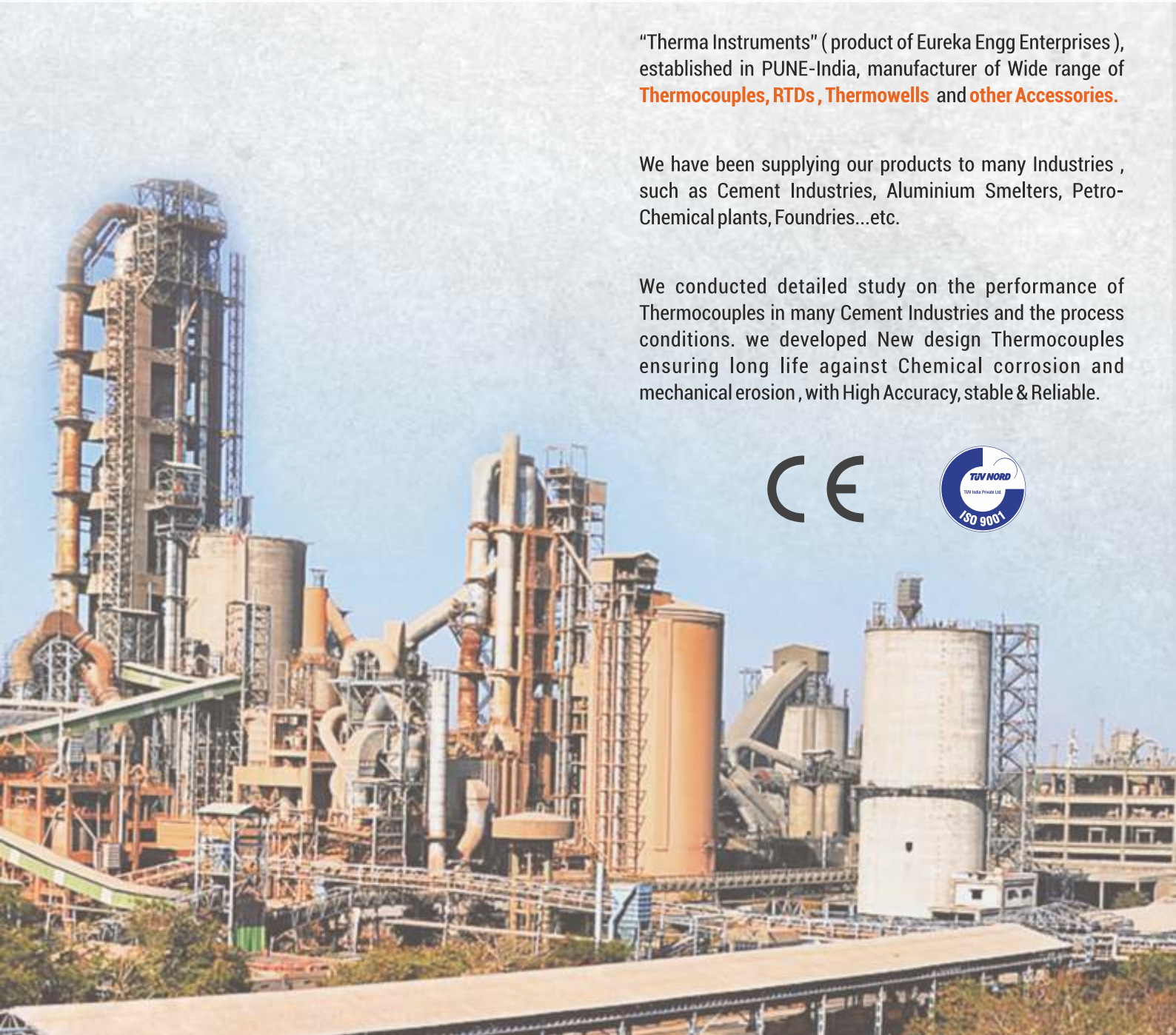
NEW DESIGN ! EXTENDED LIFE !!



"Therma Instruments" (product of Eureka Engg Enterprises), established in PUNE-India, manufacturer of Wide range of **Thermocouples, RTDs, Thermowells** and **other Accessories**.

We have been supplying our products to many Industries , such as Cement Industries, Aluminium Smelters, Petro-Chemical plants, Foundries...etc.

We conducted detailed study on the performance of Thermocouples in many Cement Industries and the process conditions. we developed New design Thermocouples ensuring long life against Chemical corrosion and mechanical erosion , with High Accuracy, stable & Reliable.



Kiln Inlet:



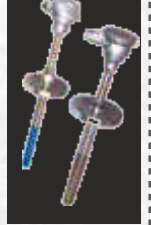
Outer Protection sheath to withstand High temperature and corrosion due to chemical attack. Drilled Bar , thick wall, Nickel – Chromium alloy . Also packed with High Temperature special Refractory material for extended life. Sensor is Type K or N , mineral Insulated with high temperature sheath , suitable up to 1200 deg C.



Calciner – Tertiary Air Duct:



Erosion due high velocity dust particles at elevated temperature lead to short life of protection sheath. Thick wall Nickel Alloy Thermowell with unique wear resistance coating & lining for longer life. Double protection sheath .Type K or N Thermocouple up to 1300 deg C. Type R/S up to 1700 deg C



Pre Heater –cyclone:

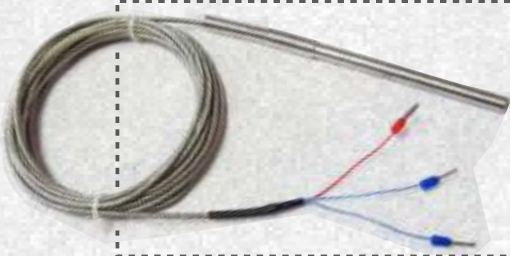


Special Nickel –Chromium Alloy Stainless steel Protection sheath Resistance to oxidation and corrosion .

Rugged design to withstand vibration and sag. Type K. N up 1200 deg C



Flue Gas, Pre Heater Outlet, Bag House, Motor Bearing / Gear Boxes.



Resistance Temperature Detectors (RTD). Type : Pt -100, 3 wire
Temp Range : 0 to 650 Deg C. Class A and Class B Accuracies.
Protection Sheath : SS304 / SS 316 / Hastelloy



CABLES

Insulation types

- **PVC** : Flame Retardant PVC Insulation Provides Good Chemical resistance and suitable up to 105°C
- **FEP/PFA/TFE** : Teflon insulation has excellent resistant to Abrasion solvent, chemical and moisture, Suitable up to 260°C
- **Fiber Glass** : Individual conductors and overall Insulated with glass fiber, used in very high temperature , up to 700°C
- **Ceramic Fiber** : Extreme high temperature application up to 1000°C

The type of cables

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



WE DESIGN AND MANUFACTURE INSTRUMENT CONTROL PANEL

THERMA
INSTRUMENTS

A Product of Eureka Engineering Enterprises

Sector No. 7, Plot No. 42, 'EL' Zone, PCNTDA,
MIDC, Bhosari, Pune - 411026. MH. India.
Tel. : +91-20-66345100
E-mail : senstemp@eurekaengg.com
Web : www.thermainstruments.in

Industry

Automobile	Fertilizer	Heat Treatment
Brewery & Distillery	Food	Metal & Steel
Cement & Mining	Foundries	Paper & Pulp
Chemical	Furnaces	Petro Chemical
Dairy	Glass	Petroleum
Drugs	Forging Units	Plastic

CAT-03/Rev 00/01-20