



Green Vision





MINERAL INSULATED ASSEMBLIES

Nurtured from the seed of a single great idea – to adapt best technologies – **green vision Instruments** went on to pioneer the entire PTFE cable industry in India by producing Extruded FEP & PFA wires using the cutting edge technology of melt Extrusion process. Green vision has revolutionised the PTFE wire & Cable industry over the years.

This is the story of green vision :-
Jharkhand PTFE wire manufacturing company.

Green vision a sister concern of AB constructions established in 1980, is the leader in real estate building ,bridges and road constructions for over 35 years. one of the top reputed builders of Jharkhand who has always been creative, innovative and imaginative in the front of the real estate developments. The company has gained valuable experience in the real estate sector with diverse and complementary talents from a rich network of top notch intermediaries, financial institutions, high-net-worth individuals and some of the most reputed developers in Jharkhand .

Our exhaustive range of products provide solutions to conventional temperature sensors to high-tech industrial thermocouples for a variety of industries like Steel, Glass, Power, Cement, Chemicals and many other OEM's. Our state-of-the-art manufacturing unit located in Jamshedpur Jharkhand is equipped with modern equipments & testing systems, which not only assembles sensors, but provides temperature solutions to the Industries. Constant upgradation to the newer technology

We are having Tie up with Exotherm Instruments Mumbai.



We specialise in manufacturing Mineral Insulated Thermocouples ranging from 1.0 mm OD to 8.0 mm OD, in Simplex as well as Duplex. The above assemblies can be provided with isolated or non-isolated junctions & terminations with flame proof head, Quick-Disconnect type connectors, spring loaded block, etc or flying leads. The Sheathing of the assemblies are available in various materials like SS 316, Inconnel 600, Ss310, etc.





THERMOCOUPLE ASSEMBLIES



Thermocouple assemblies are generally used to measure temperature upto 1800° Celsius. They can be used for most of the applications like surface temperature measurement, liquid or semi-solid temperature measurements, Gas or vacuum temperature measurement, measurement of moulds, dies, platen, etc. Since, thermocouples measure in wide temperature range and can be used in relatively rugged environment, it is necessary to check whether it matches the following criteria :

- Correct temperature range.
- Chemical resistance to the thermocouples or the sheath materials.
- Abrasion and vibration resistance.
- Quick response time.

We can manufacture various types of thermocouple assemblies like J, K, T, R and S and in various protection sheathing like SS 316, SS 310, Inconel 600, Ceramic tubes, etc depending upon the temperature range and working environment. Our thermocouples material available for precise temperature measurements and are carefully assembled according to the highest standards set by the industries. All our thermocouples are checked against standard temperature - millivolt curves to assure calibration accuracy and must match the acceptance performance curves of the standard ANSI accuracy limits.

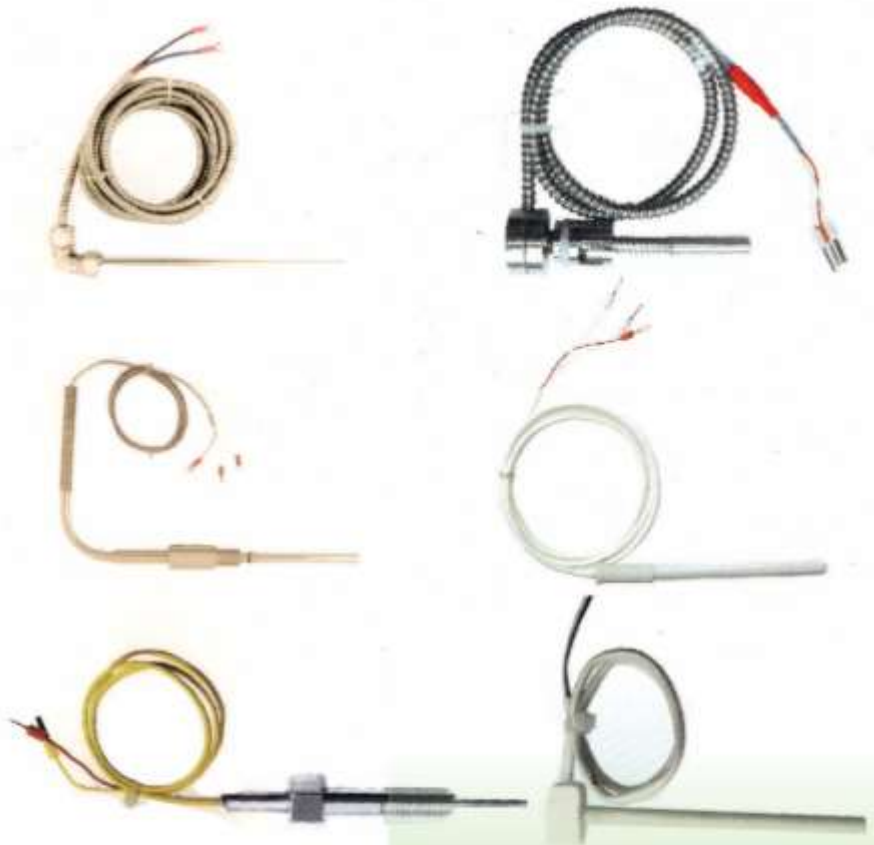




RTD ASSEMBLIES & THERMOWELLS

When accuracy over a wide temperature range is a crucial factor in the industry, Platinum Resistance Temperature Detectors (RTD's) are unequal in performance. Stability over long period of continued use makes them unmatched for reliability. Precision materials and workmanship makes them highly interchangeable for easy replacement without Calibration.

A Resistant Temperature Detectors operates on the principle of the change in electrical resistance in wire as a function of temperature. An RTD probe or assembly is composed of element, a sheath, a lead wire and a termination or a connection. These probes may be terminated in connector head, quick disconnect, a terminal block or extension wire.



THERMOWELL provide complete protection for the sensor (Temperature, Pressure, etc) elements.

THERMOWELL is designed considering optimum Pressure, Temperature, critical Frequency, the nature of Media (abrasive, corrosive, etc) and intensity of flow of media. THERMOWELL allows removing or replacing of Sensing Instrument without draining or shutting down of the process.

Most commonly used THERMOWELLS. THREADED THERMOWELLS drilled from Bar Stock or Built in.

FLANGED THERMOWELL drilled from Bar Stock and Welded Flange.

FLANGED THERMOWELL drilled from Bar Stock and in one piece.



SPECIALITY & CUSTOM DESIGN ASSEMBLIES

SPECIALITY THERMOCOUPLES

GREEN VISION believes in providing solutions, not just thermocouples. Standard thermocouples do not give appropriate results for specialized applications. Our expertise team of engineers analyze each & every application & provides an appropriate solution to respective applications.

Few of our special thermocouples includes, rtd temperature sensors for steam sterilizers, sensors for the measurement of bearing temperature, autoclave thermocouple, thermocouples with weld/pad fittings, spring loaded sensor with explosion proof housing, food piercing thermocouple, embedded temperature sensors for rotating machinery and turbines.



CUSTOM DESIGN ASSEMBLIES

At GREEN VISION, we fully understand that all applications & processes are different and so are there solutions. We believe in providing customized solution to the indigenous process. Our expertise team of Engineers can visit core areas of application at your site to understand the practical problems & provide temperature measurement solution specially for your application.

GREEN VISION can provide custom variations to the stock thermocouples for special needs. These variations include Lead wire length, lead wire insulation material, cold end connector type, sheath material, sheath length and sheath coating.



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