

## Temperature Sensors & Sealing Assemblies



# Pharmaceuticals

Solution to your temperature validation, load sensor and feed through sealing needs

Auto Clave Sensors

Quick Disconnect Assemblies

Multiple connector feed throughs

Other Accessories

Cables

Calibration Equipments and Services

Heaters



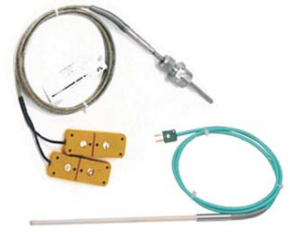
**TEMPSSENS**  
INSTRUMENTS

[www.tempsensindia.com](http://www.tempsensindia.com)

## Steam Auto Clave Sensor Assemblies:-

Specially designed with Thermocouple and RTD configurations for the extreme environmental condition found in pharmaceutical autoclave chambers, which will stand the leakage of steam/condensate into the sensor and offer a higher reliability than previously obtainable with any sensor apparatus.

The sensor assemblies are available with sealing gland that withstands the extreme environment and their rugged design stands up to frequent operator handling.



## Quick Disconnect Assemblies:-

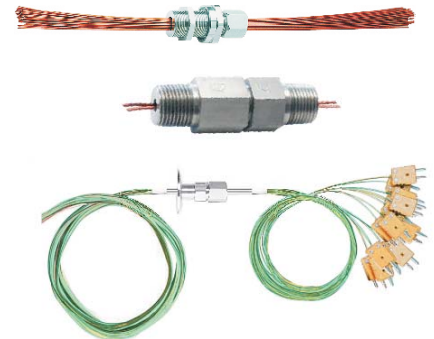


Quick Disconnect Thermocouple or RTD Assemblies are available with sheath diameters of 0.5, 1.5, 3, 4.5 and 6mm in standard 12", 18" and 24" nominal lengths. Custom lengths are also available as per customer requirement.

## Multiple Connector Feed throughs:-

High density (HD) mechanically sealed feed through assemblies consist of a stainless steel tube over 12, 24, 40, 60 bundled teflon coated thermocouple wires with or without junctions and/or copper wires, providing continuous wire feed through.

"Soft Seal" glands provide pressure or vacuum sealing of multiple insulated wires. Other gland types are available to allow passage of electrodes, conductors/wires and temperature sensor probes.



## Accessories:-



- Temperature Probes
- Connection Heads & Connectors
- Thermowells
- Temperature Thermometers
- Head Mounted Transmitters
- Sanitary Flanges

## Cables for Instrumentation:-

Compensating and Extension Cables for thermocouples J,K,T,E,N,R,S,B Types, RTD Cables in three wire & four wire configuration for simplex and six & eight wire for duplex are available with special limits of error, operating temperature.

**Wire Gauge** : 14 to 36 gauge (AWG/SWG)

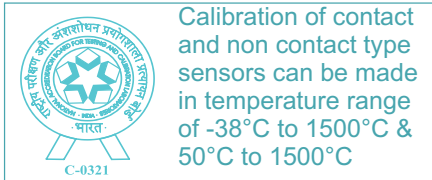
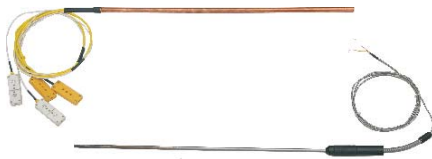
**Conductor** : Solid/Multistrand

**Insulation** : Single and double fibre glass, teflon, ceramic fibre, silica fibre, SS braided, PVC etc.

**Protection** : Armored/Unarmored



## Calibration equipment and services:-



Model	Range	Stability
CALsys-40/200	-40....+200°C	±0.01°C
CALsys-30/50	-30....+50°C	±0.1°C
CALsys-15/110	-15....+110°C	±0.1°C
CALsys300	50....+250°C	±0.1°C
CALsys650	50....+650°C	±0.1°C
CALsys1200	250....+1200°C	±0.5°C
CALsys1200L	300....+1200°C	±0.5°C
CALsys1500L	500....+1500°C	±1.0°C
CALsys1700L	500....+1700°C	±2.0°C
BLACK BODY		
CALsys500 BB	500....+500°C	±1.0°C
CALsys1200 BB	300....+1200°C	±0.5°C
CALsys1500 BB	500....+1500°C	±1.0°C
CALsys1700 BB	500....+1700°C	±2.0°C

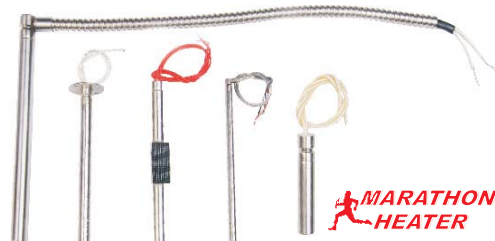
## Cartridge Heaters:-

### Cartridge Heaters

Marathon Heater offers world class high watt density cartridge heaters with various termination style for packaging machines and various other heating application.

### Silicon Rubber Heaters

Marathon Heater offer flexible silicon rubber heaters for flexible heating for various typical applications.



(Marathon Heater India is a joint venture between Marathon Heater Inc USA and Tempens Instruments India)

- Storage Tanks
- CIP & SIP Equipments
- Freeze Dry Chambers
- Packaging Machines
- Steam Sterilizers
- Auto Clave

- Hot Air Tunnels
- Quality validation Systems
- Medical Waste Products
- Cryogenic Chambers
- Steam & Liquid Pipes
- Fermentation Chambers

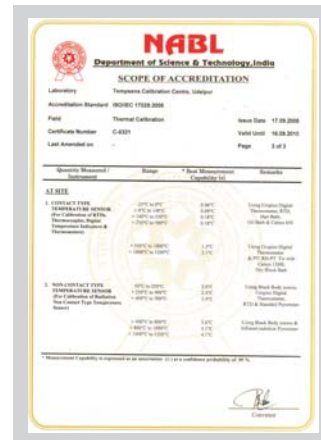
## About us:-

Tempsens Instruments (I) Pvt. Ltd. is a part of pyrotech group which was established by four technocrats in 1976 at udaipur with our first product as Thermocouple and RTD.

Tempsens is a leading manufacturer of temperature sensors for more than 35 years, continue to serve various industries with all critical temperature sensors for different applications with high accuracy.

We have tied up with world leaders in temperature measuring technology for critical components, Non contact temperature measurement and Thermal imaging solutions.

## Certificates



The Experience and Ingenuity to meet any application requirements



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