



# temperature sensor accessories

Thermowells

Mechanical items

Connectors

Compensating cables

Connection heads

Terminal blocks

Tubes



**TEMPSENS**  
INSTRUMENTS

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

## Always one step ahead .....Committed to success

Today Tempsens is one of the renowned brands in the country for temperature sensors and allied products. Tempsens has been manufacturing Temperature sensors since 1985 and now we are one of the largest manufacturer of temperature sensors in India .The company is emerging as supplier of temperature sensor accessories like Thermowells, Connection Heads, cables, connectors, ceramic and steel tubes and mechanical components etc . The main idea behind the accessory business is to fulfill the requirement of our valued customers at one place.



### Service

Tempsens Instruments is dedicated to the principle of service and high quality. We service various sector including Power, Glass, Steel and Cement Industry etc with our products both in India and abroad. We concentrate on the service and manufacture products which brings about best possible delivery, lowest costs and highest quality.



### Specialization

Tempsens is now specialized in the manufacturing of various types of thermowells and mechanical items . We have full-fledged production facility with most modern equipments and skilled work force. The protection in quality is achieved by advanced CNC Machines,deep drilling installed in house. We can quote and manufacture products based on a technical drawing or sample from the customers.



### Quality Control

Tempsens Instruments products are manufactured under a strict ISO 9001 quality control system.

### Engineering

Tempsens product Guide provides complete engineering information for proper selection of Temperature Sensors. Tempsens engineers are willing and able to help you with any design problems.



### Manufacturing Equipment

All products are manufactured on the most modern numerical control machines. Bores are produced on deep hole drilling machines which produces smooth holes accurately centered in the sensitive part of Temperature Sensors. CNC turning machines can produce large quantities of Thermowells with fully identical shapes and close tolerances.



### Delivery

We are proud of our quick delivery service, high technical standards and outstanding quality which have been appreciated and highly valued by our customers worldwide. A 'no minimum order' policy is operated on most product ranges and we are able to deal in many countries without any problem. Currently our export department services over 20 countries.

**"We will work hard to earn the privilege of becoming your preferred source" .**





Threaded



Limited Space



Flanged



Weld-in



Socket-Weld



Van Stone

**Material** : SS304, SS 316, SS 316L, SS 321, SS 310  
HRS 446, INCONEL 600/800  
Hastalloy, Monel etc.

**Type** : Drilled barstock, Fabricated , Flanged

**Construction** : Tapered, Straight

**Process connection** : Screwed, Flanged

**Procedure and Certificate :**

A wide range of documentation and Non Destructive Testing can be provided on request

1. **Material Certification**
2. **Certificate of Conformity**
3. **Hydrostatic Pressure Test**
4. **Dye Penetrant Inspection**
5. **Radiography**
6. **Ultrasonic Bore Concentricity Test**
7. **Positive Material Identification**
8. **Intergranular Corrosion Test**
9. **Hardness Testing**

Our Thermowells come in variety of material and sizes that may not be listed above.  
Please contact us with your requirements.



Compression Fitting



Pot Seals and Accessories



Mounting Products



Armour Tube



Pyrometer Accessories

**COMPRESSION FITTINGS**

- ◇ BSP
- ◇ NPT
- ◇ Metric Fitting
- ◇ Nipples
- ◇ Gland Nuts
- ◇ Plugs
- ◇ Locks Nuts
- ◇ SS Reduces

**POT SEALS AND ACCESSORIES**

- ◇ Plain Pot Seals
- ◇ Threaded Pot Seals
- ◇ Pot Seal Accessories
- ◇ Machines Pot Seals

**MOUNTING PRODUCTS**

- ◇ Unions
- ◇ Nipples
- ◇ Flanges
- ◇ Mounting Brackets

**ARMOUR TUBE**

- ◇ Square Lock
- ◇ Double Lock

**PYROMETER ACCESSORIES**

- ◇ Air Purge
- ◇ Cooling Jacket
- ◇ Sighting Tubes

**Material** : SS 304, Brass

We Can Manufacture nearly any metal component from a technical drawing or sample.

**CONNECTORS**

Plug and jack compensated connectors for thermocouples.

**Types** : J, K, R, S, B, T, E  
Standard, Miniature,

**Material** : Special PVC and CERAMIC

**Features:**

- ◇ High Quality impact resistant material
- ◇ Polarized pins prevent misconduction
- ◇ Easy to wire.



## THERMOCOUPLE WIRE



PVC insulated wire



Fiberglass insulated wire



Metal overbraid wire



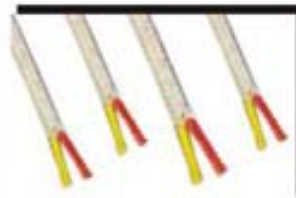
Teflon insulated wire



Teflon insulated Twisted wire



Fiberglass Asbestos insulated wire

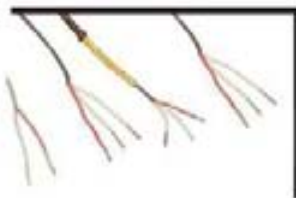


Ceramic Fiber insulated wire

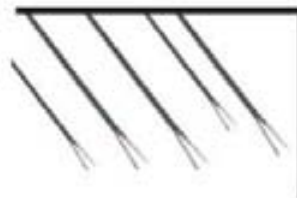


Teflon Silicon Rubber insulated wire

## RTD WIRE



Teflon insulated wire



Teflon Fiberglass insulated wire



Teflon Metal Braided wire

**WireGauge** : 14 to 36 gauge (AWG/SWG)

**Conductor** : Solid/Multistrand

**Insulation** : Single and double fiberglass, teflon, ceramicfiber, silicafiber, SSbraided, PVC etc.

**Protection** : Armored/Unarmored

### Wire Insulation Identification and Application guide

Overall	Insulation Conductors	Appearance of Thermocouple Grade Wire	Temp Range, Insulation	Abrasion Resistance	Flexibility	Water Submersion	Resistance to:				
							Solvent	Acid	Base	Flame	Humidity
Polyvinyl Chloride (PVC)	Polyvinyl Chloride (PVC)		-40 to 105°C	Good	Excellent	Good	Fair	Good	Good	Good	Good
PFA Teflon or Neoflon Kapton	PFA Teflon or Neoflon Kapton		-267 to 260°C	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Glass Braid	Glass Braid		-73 to 260°C	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
High Temp. Glass Braid	High Temp. Glass Braid		-73 to 871°C	Poor	Good	Poor	Excellent	Excellent	Excellent	Excellent	Excellent
Nextel Braid	Nextel Braid		-73 to 1204°C	Poor	Good	Poor	Excellent	Good	Good	Excellent	Fair
Silica	Silica		-73 to 1038°C	Poor	Good	Poor	Excellent	Good	Poor	Excellent	Fair

We welcome your enquiries for items not listed



Type A



Type B



Type C



Type D



Type DAN



Type MA



Type DAN-W

- Material** : Die cast aluminum, Stainless steel, Plastic
- Types** : A, B, C, DAN, DAN-W, KNE etc  
Single entry, Double entry, miniature
- Cable entry** : M24, M20, 3/4" ET, 1/2" NPT/BSP
- Bottom Entry** : 1/2" BSP, M20
- Protection class** : IP 67, Ex-proof II A/II B, II C

## TERMINAL BLOCK

Tempens offers various types of terminal blocks for connection heads.

- Material** : Ceramic
- Terminal** : two, three, four, six, eight



Two Pin  
Terminal Block



Three Pin  
Terminal Block



Four Pin  
Terminal Block



Six Pin  
Terminal Block

## CERAMIC TUBES



Open Ended



Close Ended



Insulators



Beads

**Material** : Ceramic  
**Type** : Open Ended, Close Ended, Round Ended  
**Size\*** : 350, 530, 600, 650, 740, 900, 1030, 1200, 1430, 2000, 2300mm

### Ceramic Tubes

OD X ID (mm)	Length (mm)
6 X 4	350 to 2300
8 X 5	350 to 2300
10 X 6	350 to 2300
12 X 8	350 to 2300
15 X 6	350 to 2300
15 X 10	350 to 2300
20 X 10	350 to 2300
20 X 15	350 to 2300
24 X 12	350 to 2300
24 X 18	350 to 2300

### Insulating Tubes

OD	Configuration	Length(mm)
2.8	2/4/6 Holes	350 to 2300
3.5	2/4/6 Holes	350 to 2300
5.5	2/4/6 Holes	350 to 2300
8.5	2/4/6 Holes	350 to 2300

### Ceramic Beads

OD(mm)	Configuration	Length(mm)
3.6	2/4 holes	25
8.5	2/4 holes	25
11	2/4 holes	25
12	2/4 holes	25
13.5	2/4 holes	25

### Material Properties :

Properties	Units	Rubalit 710
Al <sub>2</sub> O <sub>3</sub> - content	%	99
Color	-	yellow
Water absorption	%	0
Flexural Strength	N/mm <sup>2</sup>	360
Max. Temp. use*	°C	1700
Thermal Conductivity	W/m °K	28
Temperature Stability		Good/satisfactory
Chemical resistivity		Very good

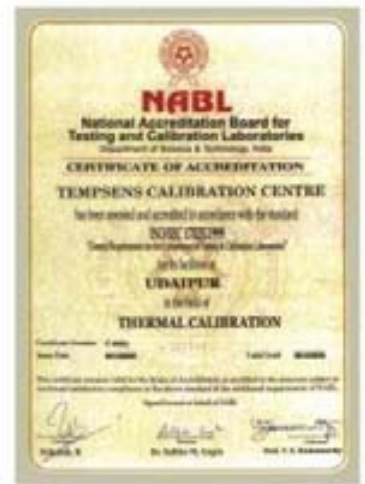
## STAINLESS STEEL TUBES

**Material** : SS304,SS310,SS416,Inconel, Hastalloy, Titanium etc.  
**Type** : Open Ended, Close Ended, Round Ended  
**Length** : As per Customers requirements



OD X ID (mm)
3X2.2
4X3.7
4.5X3.7
5X4
6X5
8X6.5
9.5X7.1
12X8
21.3X2.77 ½" NB SCH 40
21.3X3.77 ½" NB SCH 80
21.3X4.77 ½" NB SCH 160
26.7X5.35
33X8.5
33.4X21

We welcome your enquiries for items not listed



## OTHER PRODUCTS



Thermocouples



RTDs



Glass Thermocouples



Calibration Equipments



Master Sensors



Calibration Services



TEMPESENS INSTRUMENTS (I) PVT. LTD.  
 B-188 A, Road No.5, M.I.A., UDAIPURI-313003 (Rajasthan) INDIA  
 Ph. : +91-294-3057700 Fax : +91-294-2492447, 3057750  
 Email : info@tempensindia.com, Web : www.tempensindia.com

[www.tempensindia.com/accessories](http://www.tempensindia.com/accessories)