



Sensing Your Needs....

# Ajmer Thermotech Pvt. Ltd.



Thermocouples  
PID Controllers  
Digital Temp. Indicators  
Compensating Cables  
Digital Temp. Controller  
Optical Pyrometers  
Infrared Sensors

[www.atplajmer.com](http://www.atplajmer.com) / [www.thermocouplesindia.in](http://www.thermocouplesindia.in)



## High Temperature Thermocouples



- ♦ Steatite Ceramic terminal block with nickle plated terminals
  - ♦ Die cast Aluminium/S.S. mounting head & adjustable flange.
  - ♦ Ceramic protection tube Type KER 610 - with 60%, 80%, Al<sub>2</sub>O<sub>3</sub>.
  - ♦ Holding tubes made of SS 304/SS 316 of 32mm, 25mm, 20mm dia are used to hold ceramic sheath with head.
  - ♦ Type KER 710 - recrystallised - high alumina tube with 99.9% Al<sub>2</sub>O<sub>3</sub> available in 24mm, 20mm, 15mm, 12mm, 10mm, 8mm, 6mm dia.
  - ♦ Type 'R' (Pt. Rh. 13% - Pt.) & Type 'S' (Pt. Rh. 10% - Pt.) Are used to measure temperature upto 1400°C/1600°C maximum.
  - ♦ Type 'B' (Pt. Rh 6% - Pt. Rh 30% or Pt. 18) are for temp. Upto 1800°C max. Thermoelement pair is protected by two or three ceramic sheaths of various types depending upon working Temperature and environmental conditions.
- Color monitor(800 X 600)

## Low Temperature Thermocouple & RTDs

- ♦ Thermocouple type 'J' (iron-constantan or Fe-K) for temperature upto 800°C
- ♦ Thermocouple type 'K' (chromel alumel or Cr.Al or Ni.cr-Ni) are temperature upto 1000°C /1200°C maximum.
- ♦ Resistance Temperature Detector (RTD) type (PT-10, PT-50, PT-100, PT-200, PT-1000 & CU-53) to measure temperature from -400°C to 600°C.
- ♦ All sensors available in metallic protection sheath & Thermowell made of SS 304, SS 316, SS310, HRS 446, inconel 600/800 with insulation by ceramic beads, hand-filled mgo & MI



## Digital Indicators, Scanners & On-Off Controllers

- ♦ Available in 48 X 96 mm<sup>2</sup>, 72 X 72 mm<sup>2</sup>, 96 X 96 mm<sup>2</sup>, 96 X 192 mm<sup>2</sup> size.
- ♦ Multichannel Temp. Scanner with 8 channel, 16 channel, 32 channel inputs
- ♦ Digital on-off, Proportional, PD type temperature controllers with single/double set point having 5 Amp, 230 V AC relay output.
- ♦ Widest range of single/multi channel, linearised Temperature Indicators with micro controller chip with 0.5", 1" 2", & 4" Display
- ♦ Separate display for ch. No & temp., auto - manual switch and RS 485/RS 232 communication port.

## Digital Autotune PID Controllers

- ♦ Control Output : Servomotor, On-Off Relay, 4 to 20 mA
- ♦ Programmable profile controller with 16 segment Ramp - Sock program
- ♦ Alarm Output : upto two alarm, 230 VAC, 3 Amp Relay
- ♦ Fuzzy Logic PID Controllers with Universal Input (Thermocouple / RTD / 4 to 20 mA)
- ♦ Size : 48 X 48 mm<sup>2</sup>, 48 X 96 mm<sup>2</sup>, 96 X 48 mm<sup>2</sup>, 96 X 96 mm<sup>2</sup>
- ♦ Additional features : Remote set point, Retransmission output, Serial Communication RS 485/RS 232





## Portable Infrared Thermometers & Optical Pyrometers

- ♦ Portable Thermometers are available in Different Temp. Range :  
-30 to 400° C, -20 to 600° C, 0 to 800° C, 0 to 1000° C, 0 to 1500° C,  
200 to 1800° C, 600 to 3000° C
- ♦ Infrared Thermometer measure the surface temperature of an object. It's optics sense emitted, reflected and transmitted energy which is collected & focused on a detector. It's electronics translate information into a temperature reading which is displayed on the unit
- ♦ Low cost Disappearing filament type optical pyrometer are available in 700 to 3500° C range.



## Thermowells and Flanges

- ♦ Thermowell Assembly (Straight Threaded)
- ♦ Thermowell Assembly (Stepped Threaded)
- ♦ Thermowell Assembly (Tapered Threaded)
- ♦ Thermowell Assembly For Sponge Iron
- ♦ Thermowell material available in all types of Grades  
SS304, SS316, SS316L, SS310
- ♦ Incoloy800, HRS446, Special HRS, Inconel600

## PLC, HMI, & SCADA

- ♦ Remote monitoring and control module
- ♦ Enhanced Touch Panel (HMI) in monochrome, Color, white on blue LCD with 4" to 15" size.
- ♦ Extremely cost effective analog I/Os. Modbus, TCP/IP and ethernet IP, Devicenet, Profibus option. Text Panel & Touch Panel with built in PLC
- ♦ High end Modular PLC with 8-96 local I/O expandable upto 2048. Total program /data memory 64 k, Fast scan time 3ms for 1k instruction
- ♦ SCADA Software with multi-channel scanner provides an operator Interface in a window environment for real time supervision, historic trend & alarm management & all the data



## Digital Portable Pressure Indicator

- ♦ Available in 0 to 1400 mm H<sub>2</sub>O (Accuracy : +/- 0.1 mm)
- ♦ Highly Accurate , Rugged instrument for high temperature Air up to 600 C With IP 67 Protective body
- ♦ Digital Manometer have twin inputs for gauges or differential Pressure & negative or positive (Vaccum) Pressure Measurement.
- ♦ Selectable Pressure Units PSI , mBar , bar, in H<sub>2</sub>O, in Hg, mm Hg, Torr, Pa, Kpa, mm H<sub>2</sub>O, cm H<sub>2</sub>O, Kg/Cm<sup>2</sup>
- ♦ Adjustable Zero Value
- ♦ Max, Min Pressure & Hold Function





**Sensing Your Needs....**

***Our clientele includes almost 1200 companies across the***

**Iron & Steel | Ceramic Plants | Glass | Powerlooms  
Laboratories | Cement | Petro Chemicals  
Thermal Power Plant | Foundries | Refractory | Fertilizers  
Other Manufacturing Units | Heat Treatment**

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### Computerised Data Logging Systems

- ◆ Multi channel Data logger in universal fix type input with 8/16/32 channels
- ◆ Each Channel can store 3000 readings , 128 KB Capacity
- ◆ RS 232 / 485 Serial port with modbus, RTD protocol
- ◆ Historical Graph & online trend available.
- ◆ Parallel centronic port for direct printing
- ◆ PC Based Data Acquisition Software
- ◆ 24 Hrs. Format database available for excel report generation.
- ◆ Logged data is saved as different database
- ◆ System requirement : PIII, P4, 128/256 MB Ram 5 GB Hard disk Win 98/2000/Xp. 1 serial & parallel port, 1 CD-ROM , Color monitor(800 X 600)

### Instrumentation & Compensating Cable

- ◆ Heavy duty,rugged and easily available.
- ◆ Single pair to multipair armored/unarmored cable
- ◆ Conductor Size : 3/24 SWG , 3/26 SWG , 7/36,14/36 SWG etc.
- ◆ Insulation : PVC/PVC,Fiber glass /FG/SS(Shilded) , FG/FG/Asbestose,Teflon,Silicon Rubber,TRS etc.



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