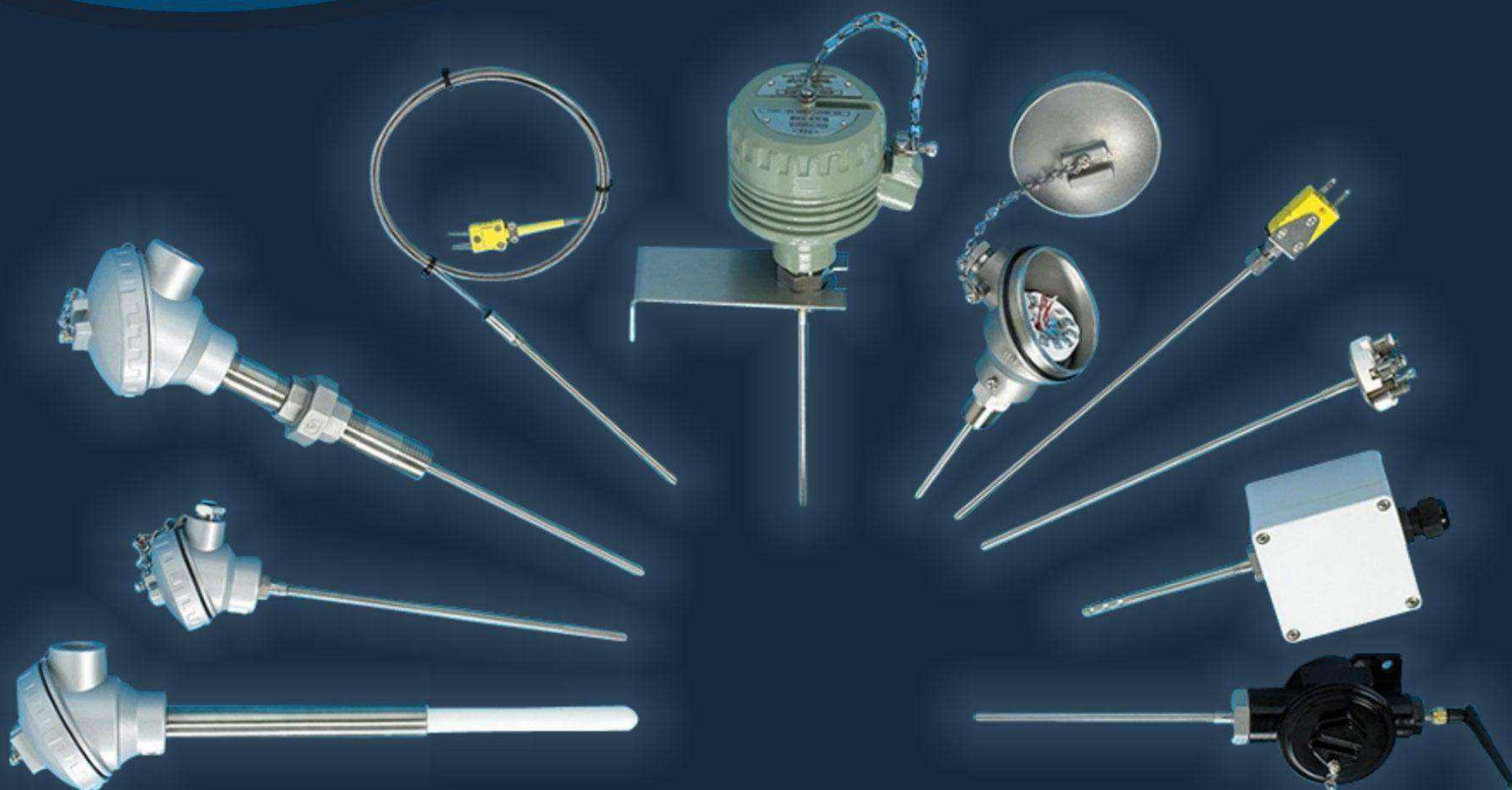




Ajmer Thermotech Pvt. Ltd.



www.atplajmer.com / www.thermocouplesindia.in

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



Sensing Your Needs...

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%, Al₂O₃.
 - ◆ 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% Al₂O₃ 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. Thermoement 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 mm² , 72 X 72 mm² , 96 X 96 mm² , 96 X 192 mm² 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 mm², 48 X 96 mm², 96 X 48 mm², 96 X 96 mm²
- ◆ 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.



Digital Counters & Timers



- ◆ Hardware keylock to operate instrument only by authorised user
- ◆ Micro controller based design with
- ◆ Builtin Battery Back up to store data when Power supply is off.
- ◆ Universal Timers with Sec, Min, Hrs. selectable from front keyboard.
- ◆ Cyclic timers available for special applications.
- ◆ Power Supply : 230 V , 440 V AC
- ◆ Size : 96 X 96 mm

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 programme /data memory 64 k, Fast scantime 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

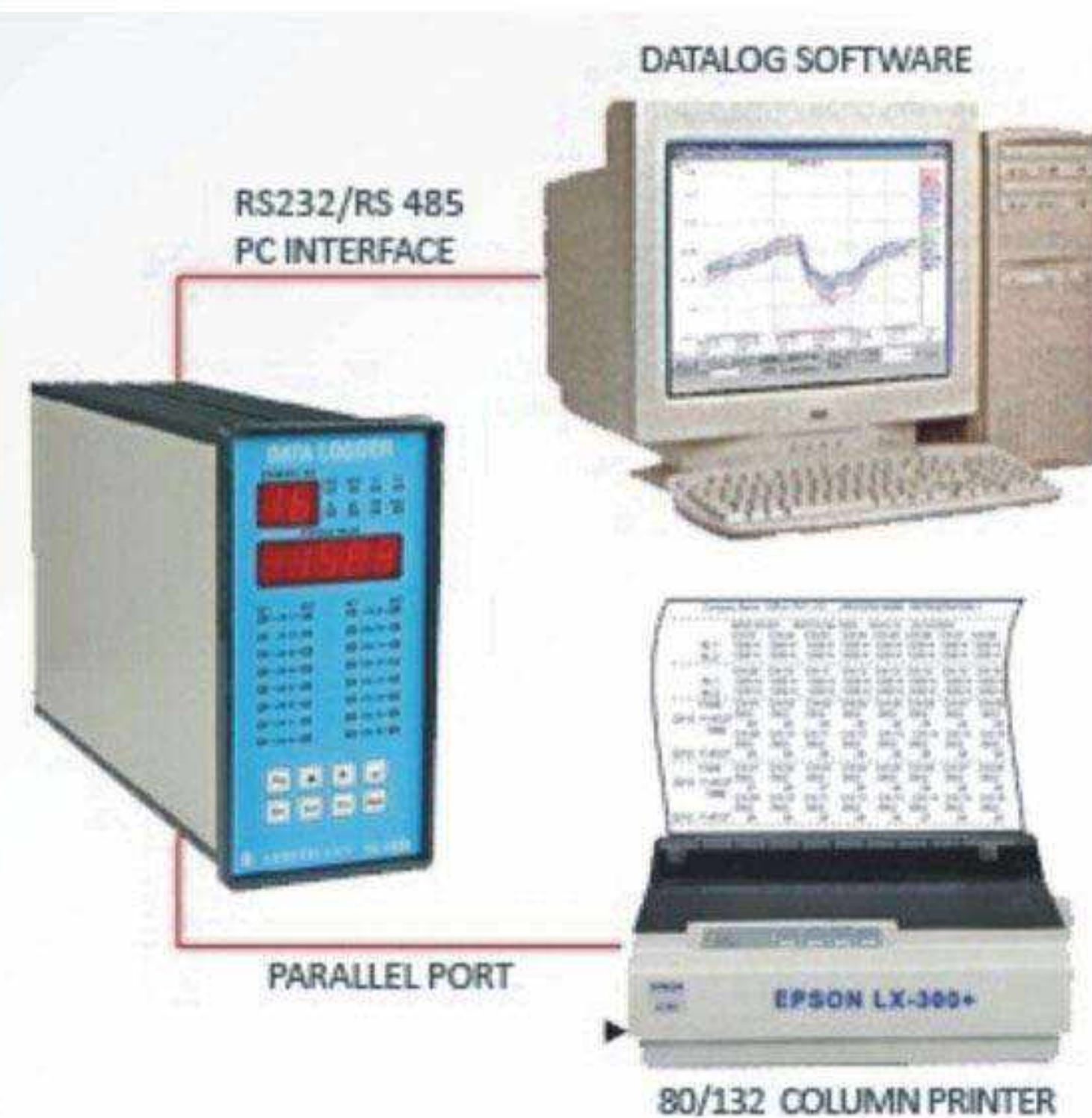
- ◆ Available in 0 to 1400 mm H₂O (Accuracy : +/- 0.1 mm)
- ◆ Highly Accurate , Rugged instrument for high temperature Air up to 600 C With IP 67 Protective body
- ◆ Digital Manometer have twin inputs for gauges or differential Pressure & negative or positive (Vaccum) Pressure Measurement.
- ◆ Selectable Pressure Units PSI , mBar , bar, in H₂O, in Hg, mm Hg, Torr, Pa, Kpa, mm H₂O, cm H₂O, Kg/Cm²
- ◆ Adjustable Zero Value
- ◆ Max, Min Pressure & Hold Function

Our clientele includes almost 400 companies across the Nation such as:

**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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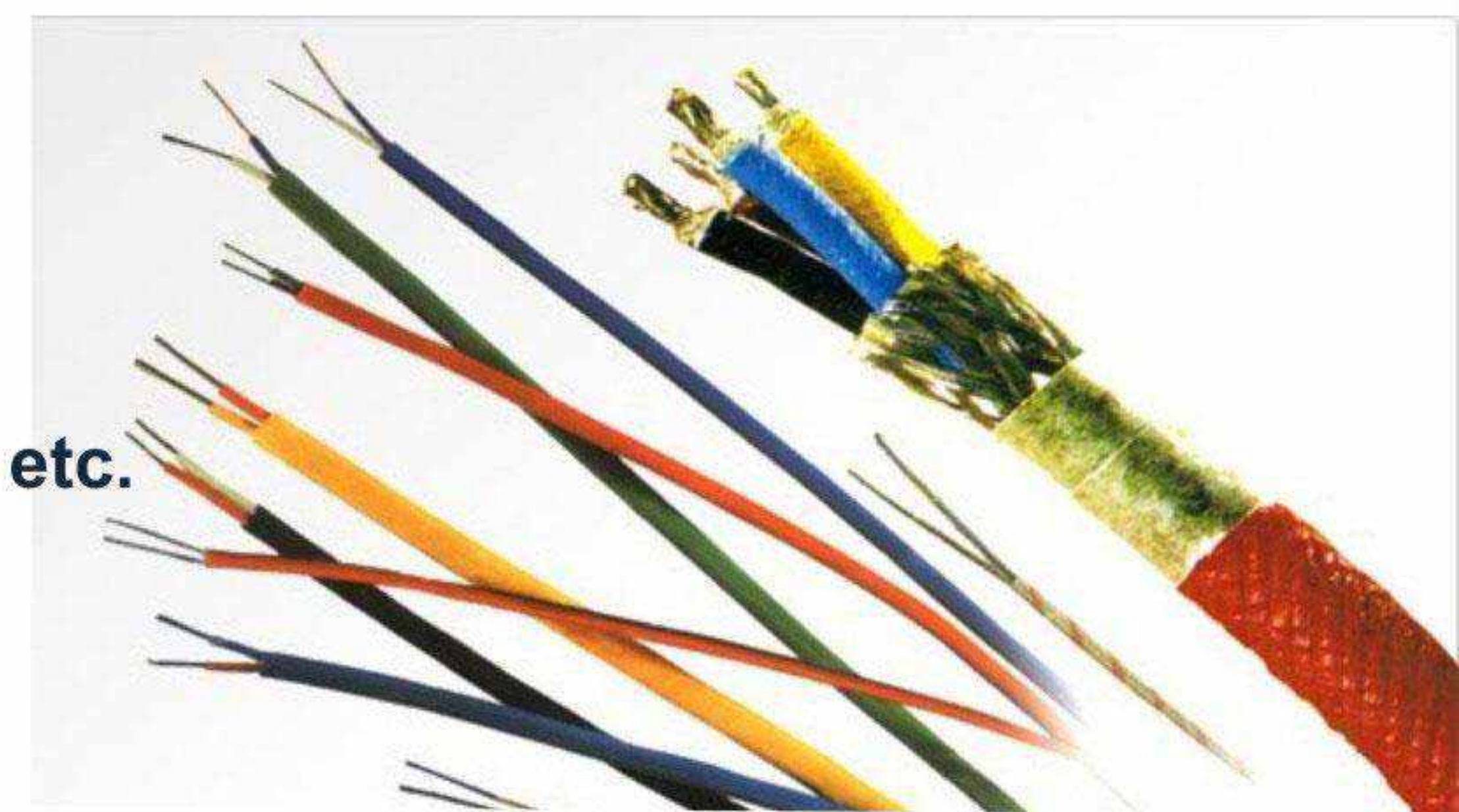
Computerised Data Logging Systems



- ◆ 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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