

DATA SCANNER / DATA LOGGER



**TC - 800 / TC - 800D
PANEL MOUNT**



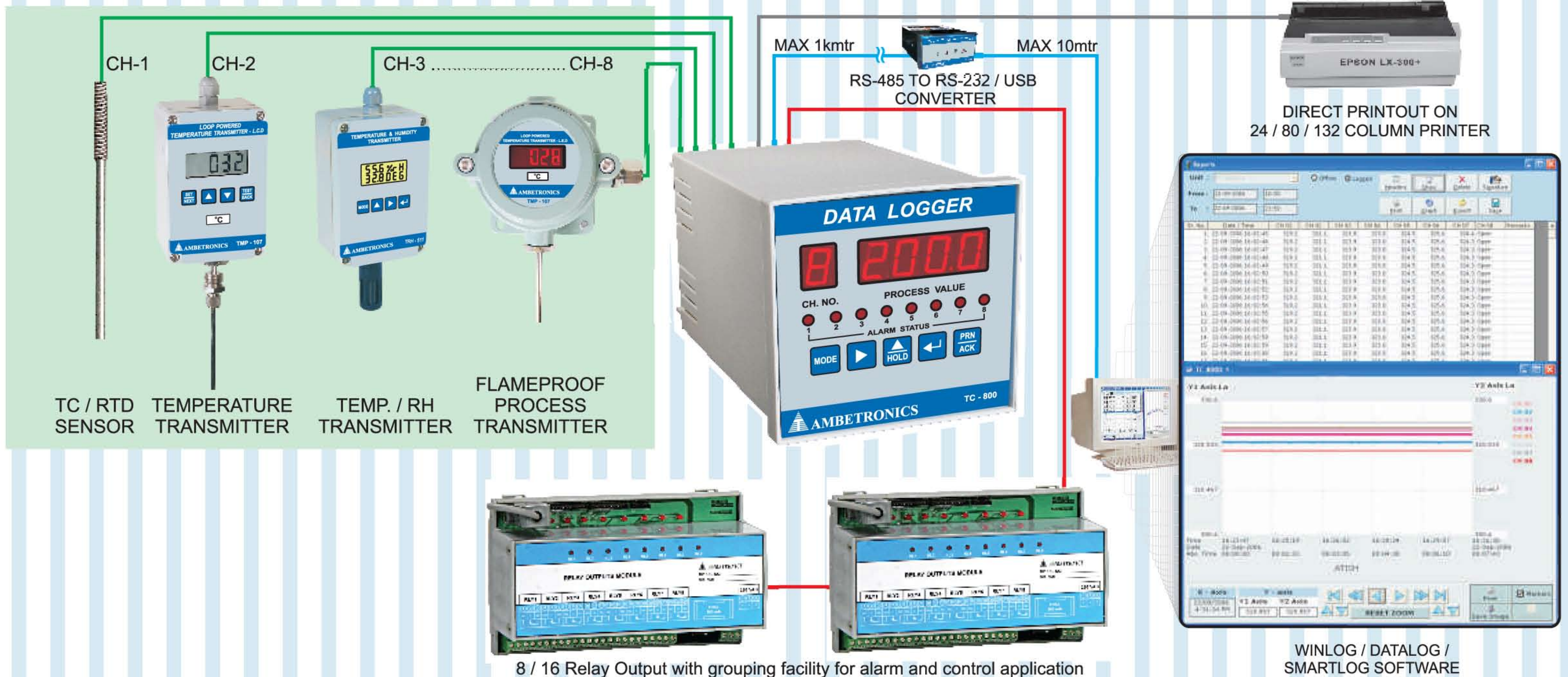
**TC - 800 / TC - 800D - WP
WEATHERPROOF**



**TC - 800 / TC - 800D - FLP
FLAMEPROOF**

Remote Area

Safe Area / Control Room



Features

- Used latest micro controller based technology for better accuracy
- 8 Channel fixed input for all thermocouple, J, K, R, S, T, E, B, N programmable by user & RTD (PT-100), 4-20mA, 0-10 VDC factory settable
- Easy on-line field calibration by front panel membrane keypad
- Field programmable channel scan time 1 to 59 sec., Logging interval 1 to 9999sec & Printing Interval 5 to 9999 sec.
- Field programmable Delay time 1 to 99 sec. for Relay Output
- Optional RS-232 / RS-485 Modbus Serial Port
- Optional Parallel / USB Printing Port

Applications

- ISO Certification records, Validation process certifying
- Pharmaceutical process validation with graph & excel report in Autoclaves
- Online profile recording for Oven & BOD, Incubator, Humidity Chamber
- Winding temperature of generators, Bearings, motors, transformers
- To know heat Profile in furnace, foundries for Heat treatment application
- Primary & auxiliary temperature scanning of boiler
- Chemical & Hazardous area where data monitoring is essential
- Room Mapping in Pharmaceutical

MUST FOR YOUR PROCESS

TECHNICAL SPECIFICATIONS

| INPUTS | RANGE | | RESOLUTION | ACCURACY |
|--|--|-----------------------------------|--|------------|
| | Minimum | Maximum | NORMAL | FULL SCALE |
| RTD PT-100 | - 100°C | 400.0°C | 0.1 | ± 0.25% |
| J - Type (Fe - CON) | - 100.0°C | 700.0°C | 0.1 | ± 0.25% |
| K - Type (Cr - Al) | - 100.0°C | 500°C | 0.1 | ± 0.25% |
| K - Type (Cr - Al), | -100°C | 1350°C | 1 | ± 0.25% |
| N - Type | - 200°C | 1300°C | | |
| R-Type (PT - 13%Rh / PT), S-Type (PT - 10%Rh / PT) | 0°C | 1750°C | 1 | ± 0.25% |
| T - Type (Cu / CON) | - 100°C | 400.0°C | 0.1 | ± 0.25% |
| E-Type (NI Cr / CON) | -100°C | 1000°C | 1 | ± 0.25% |
| B-Type (PT 30% Rh / PT 6% Rh) | +400°C | 1820°C | 1 | ± 0.25% |
| 4 To 20mA / 0 To 20mA | - 999 | 9999 | Programmable By user | ± 0.25% |
| Voltage (0 To 1 VDC / 0 To 10 VDC) | - 999 | 9999 | | ± 0.25% |
| Display | 4 digits of 13 mm height Red L.E.D display for 'Process Value' indication | | | |
| | 1 digit of 13 mm height Red L.E.D display for 'Channel Number' indication | | | |
| L.E.D. Indication | 8 Nos Red L.E.Ds of 3 mm for Alarm Indications i.e. AL1 & AL2 | | | |
| Set Point | 2 independent set points for each channel with 2 common relay outputs & programmable latch / non-latch facility for 2 common relays & Alarm indications | | | |
| Control action | HI - LO, LO - Very LO, HI-Very HI Control action logic; programmable by user | | | |
| Relay Output | 1 NO/C/NC Relay Contact Rated 230VAC/5A for Relay-1 (AL1) & Relay-2 (AL2) | | | |
| Setting | Setting by 5 feather touch keypad on front panel 'MODE', 'SHIFT', 'INC', 'ENT', 'PRN / ACK' for panel & WP model and push keys for Flameproof model. | | | |
| Scan Time | 1 to 59 sec scan/scroll time between each channel; programmable by user | | | |
| Print Interval (Optional) | 5 to 9999 Sec for Direct print out on 24 / 80 / 132 Column Dot matrix Printer | | | |
| Logging Interval | 1 to 9999 Sec log interval for data logger model; programmable by user | | | |
| Memory | Max. 5000 readings storing capacity for all 8 channel in Data Logger model | | | |
| | Memory saturation, Memory Scrolling (FIFO) & Online PC interface available in Data Logger model | | | |
| Monitoring: Sensor | Temperature sensor 'Break / Open' display shows 'Error' indication or random value | | | |
| Open / Under / Over | Under range 'Under'. Over range 'Over' indication for RTD & all Thermocouple I/Ps | | | |
| Supply Voltage | 230 VAC ±10%, OR 110 VAC ±10% OR 24 VDC OR 12 VDC or 110 VDC | | | |
| Operating Temperature | - 40 To 85 °C Relative Humidity : Below 95% non condensing | | | |
| Enclosure Details | Panel Mount | Weatherproof | Flameproof | |
| Protection Class | IP-40 | IP-65 | IP-65, CMRI for IIA & IIB Gas Group | |
| Cabinet Material | ABS Plastic, White Colour | Polycarbonate, gray colour | Cast Aluminum alloy, LM-6 / C.I. Enclosure | |
| Cable Entry | Terminal Connector for Connection | Thermoplastic cable gland (IP 68) | Double compression cable gland, 3/4" ET-type | |
| Dimension | 96(H) X 96(W) X 175(D) in mm | 305(H) X 325(W) X 170(D) in mm | 350(H) X 295(W) X 170(D) in mm | |
| Cutout | 92(H) X 92(W) in mm | - - - - | - - - - | |
| Mounting | Panel Mount | Wall Mounting / Stand Mounting | Wall Mounting / Stand Mounting | |
| Weight | Approx 1Kg | Approx 2.5Kg | Approx 9.5Kg | |
| Optional | a) Isolated RS-232 / RS-485 Serial Port with MODBUS RTU Protocol output. b) Isolated Parallel port for direct printout on 24/80/132 column Dot Matrix printer without need of Computer (PC) c) SMARTLOG / DATALOG / SCADA Data Acquisition Softwares for online graphs & history data reports d) Individual Relay output or Grouping Relay output can be given for each channel | | | |

ORDERING INFORMATION

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|-----------|---|---|--|---|---|--|---|---|
| TC | A | B | C | D | E | F | G | H |
| | A) 1) 800 - Scanner 2) 800D - Logger | B) Enclosure 1) Panel Mounting 2) Weatherproof (WP) 3) Flameproof (FLP) | C) Input Type 1) PT-100 2) Thermocouples (J,K,R,S,T,E,B,N) 3) 4 to 20mA 4) 0-10 VDC 5) Multiple Inputs (Please Specify with Channel No.) | D) Relay Output 1) None 2) 2 Common Relay 3) 8 Relay 4) 16 Relay | E) Power Supply 1) 230 VAC, 50Hz 2) 110 VAC, 50Hz 3) 24 VDC 4) 12 VDC 5) 110VDC | F) Communication Port 1) RS-232 Serial Port 2) RS-485 Serial Port 3) Centronix Parallel Port | G) PC Based Software 1) None 2) Datalog Software 3) Smartlog Software 4) Winlog/Scada Software | H) PC Interface 1) RS-485 to RS-232 Converter 2) RS-485 to USB Converter |

NOTE : For any customize requirement contact factory

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Dealers: