

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 (3 WIRE)	- 200°C	400.0°C	0.1	± 0.25%
J - Type (Fe - CON)	- 50.0°C	600.0°C	0.1	± 0.25%
K - Type (Cr - Al)	- 50.0°C	500.0°C	0.1	± 0.25%
K - Type (Cr - Al), N - Type	- 50°C	1300°C	1	± 0.25%
R-Type (PT - 13% Rh / PT), S-Type (PT - 10% Rh / PT)	0°C	1750°C	1	± 0.25%
T - Type (Cu / CON)	- 200°C	400.0°C	0.1	± 0.25%
E-Type (NI Cr / CON)	0°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 & AL 2			
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'			
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 'oPE _n ' indication			
Open / Under / Over	Under range 'undr'. Over range '0uEr' indication for RTD & all Thermocouple I/Ps			
Supply Voltage	230 VAC ±10%, OR 110 VAC ±10% OR 24 VDC OR 12 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

TC	A	B	C	D	E	F	G	H
	A) Scanner 1) 800 - Scanner 2) 800D - Logger	B) Enclosure 1) Panel Mounting 2) WP-3500 (Weatherproof) 3) FLP-012 (Flameproof)	C) Input Type 1) PT-100 (3Wire) 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	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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EPL / VER. 1.0 / 121208 / 3K