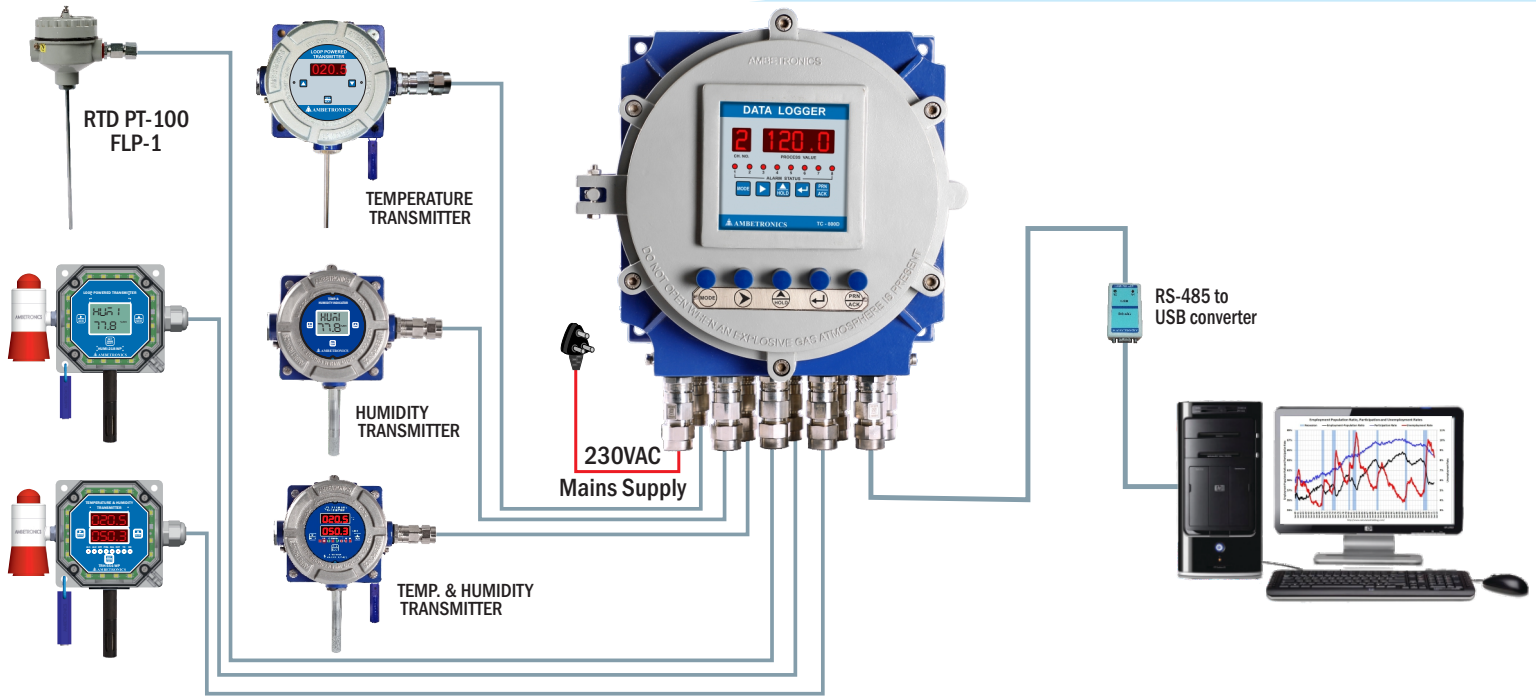


TC-800 -FLP

Data Scanner / Data Logger



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY



ORDER CODE : TC-800-FLP-0-0

Features

- Used latest micro controller based technology for better accuracy
- 8 Channel fixed input for all type of 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 Push Button
- Field programmable channel scan time 1 to 59 sec., Logging interval 1 to 9999 sec
- Optional RS-485 / RS-232 Modbus Serial Port
- Automatic cold junction compensation for Thermocouples
- Temp. reading in °C & °F by user selectable

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

Approvals & Compliance

- Approval & Compliance for Flameproof Certified to Ex d IIC T6 Gb, IP66
- CIMFR CERTIFICATE NO. : CIMFR/TR20/672 Dt : 26/02/2020
- PESO CERTIFICATE NO. : P538850/2 Dt : 16/06/2022
- BIS MARK LICENCE NO. : 7800046916
- Standard Compliance :
 - IS / IEC 60079-1 : 2014 Ex d IIC T6 Gb
 - IS / IEC 60079-31 : 2013 Ex ta IIIC T 85°C Da
 - IS / IEC 60529 : 2001 IP66

TECHNICAL SPECIFICATIONS

INPUTS	RANGE		RESOLUTION	ACCURACY
	Minimum	Maximum	NORMAL	FULL SCALE
RTD PT-100	-99.9°C	400.0°C	0.1	± 0.25%
J - Type (Fe - CON)	-99.9°C	450.0°C	0.1	± 0.25%
K - Type (Cr - Al)	-99.9°C	500.0°C	0.1	± 0.25%
K - Type (Cr - Al),	-99.9°C	1350°C	1	± 0.25%
N - Type	-99.9°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)	-99.9°C	400.0°C	0.1	± 0.25%
E-Type (NI Cr / CON)	-99.9°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%

MUST FOR HUMAN & INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

General :

- 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' for panel & WP model and push keys for Flameproof model.
- Scan Time** : 0 to 59 sec scan/scroll time between each channel; programmable by user
- Logging Interval** : 1 to 9999 Sec log interval for data logger model; programmable by user
- Memory** : Max. 5193 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 'oPEN' indication or random value
- Open/Under/Over** : Under range 'undr'. Over range 'OuEr' indication for RTD & all Thermocouple I/4-20mA

Electrical :

- Supply Voltage** : 100 to 270VAC
Frequency : 50Hz

Environmental :

- Operating Temperature** : - 40 To 85 C
Relative Humidity : Below 95%RH non condensing

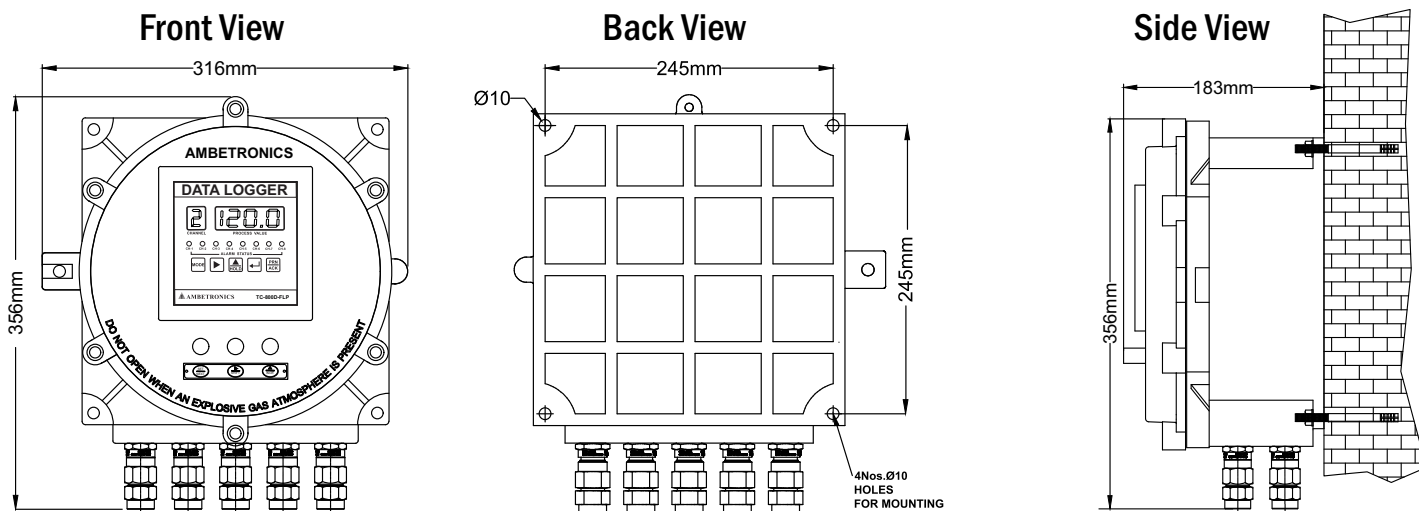
Optional :

- Isolated RS-485 / RS-232 Serial Port with MODBUS RTU Protocol output.
- SMARTLOG & Smart Pro Data Acquisition Softwares for online graphs & history data reports
- Individual Relay output or Grouping Relay output can be given for each channel

Flameproof Housing :

- Degree of Protection Class** : IP-66
- CIMFR CERTIFICATE NO. : IN/CIMFR/TR20/672 Dt. : 26/02/2020
 - PESO CERTIFICATE NO. : P538850/2 Dt. : 16/06/2022
- Housing Material** : Cast Aluminum LM6 Alloy or Cast Iron (C.I.) Enclosure
- Cable Entry** : Flameproof, Weatherproof IP66 Double Compression Cable Gland (Ex d)
- Model No.** : CG/FLP/2C M20 x 1.5 (P)
- CIMFR CERTIFICATE NO. : IN/CIMFR/TR21/R/2147 Dt. : 12/10/2021
 - PESO CERTIFICATE NO. : P538850/7 Dt. : 16/06/2022
- Dimension** : 356 mm (H) x 316 mm (W) x 183 mm (D)
- Mounting** : Wall Mounting / Stand Mounting
- Weight** : Approx 10 Kg

DIMENSIONAL DETAILS



ORDERING INFORMATION

TC-800-FLP-X-X

- | | | | |
|--|------------------|------------------------------------|---|
| MODEL NO.
0) 800 SCANNER
1) 800D LOGGER | ENCLOSURE | RS-485
0) NONE
1) YES | INPUT TYPE
0) PT-100
1) THERMOCOUPLES (J,K,R,S,T,E,B,N)
2) 4-20mA |
|--|------------------|------------------------------------|---|

Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

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Version : TC-800-FLP-0-0-R5-07-09-2023

Specifications subject to change without any prior notice