



96(W) X 96(H) X 175(D) mm.

PRINTER RS-232 / RS-485 SERIAL PORT
(OR)
SS 25PIN PARALLEL PORT



DIRECT PRINTOUT ON
80 COLUMN DOT MATRIX
PRINTER

CLASSIC FEATURES:-

- * Datastore capacity of 5000 reading of all eight channels.
- * Built in memory saturation, scrolling around & on line printing.
- * Maximum 8 analogue input with any combination.
- * Universal input type for thermocouple J, K, R, S, T, RTD (PT-100), 4-20mA, 0-10V, please specify input while order.
- * Automatic cold junction compensation for thermocouples.
- * Automatic wire length compensation for long wire RTD inputs.
- * Very high accuracy 0.25%, With software linearization.
- * Temperature sensor break, 'oPEN' indication.
- * Under Range 'undr' & over range 'OuEr' indication for 4 to 20 mA & 0-10VDC linear input.
- * Easy on-line field calibration by user by front keys.
- * Built in temperature reading in °C or F by user selectable.
- * Individual channel SKIP, HOLD facility from front panel.
- * Reading offset facility to compensate the field error.
- * Field programmable channel scan time 1 to 59 seconds.
- * Two independent set points individual for each channels with two common relay.
- * Hysterisis : Programmable for relay output.
- * Output - 1 NO/C/NC Relay contact rated 230 V/5Amp. for both relay 1 (ALARM 1) & relay 2 (ALARM 2) common for all channels.
- * Programmable latch & non-latch facility for common relay & relay Indication.
- * Optional RS-232 / RS-485 serial port with modbus RTU protocol.
- * Optional on line Data Acquisition computer software.
- * Optional Parallel port for direct printout on 80 column dot-matrix printer without need of computer(PC).
- * Field programmable print interval 5 to 9999 seconds. Printers with real time clock for on line printing.
- * Optional individual relay output can be given for each channel.

DESCRIPTION:-

The TC-800 multiple data scanner is a part of TC series intelligent Microcontroller based Indicator instrument for realization of economic solution of process control problem. It is mostly used in,

- * Pharmaceutical validation.
- * Online recording for Oven & BOD, Incubator, Humidity Chamber.
- * Winding temperature of generators, bearings, motors, transformers.
- * Heat treatment in furnace.
- * Primary & auxiliary temperature scanning of boiler.
- * Iron & steel industries for soaking pits, oxygen plant, smelter plant.
- * Sugar industry for Pan alternation, dailer automation.
- * Chemical & petrochemical industry.
- * ISO certification & validation.
- * Online daily or weekly testing of material.

DATALOG SOFTWARE

TECHNICAL SPECIFICATIONS:-

No. of I/P channels: Maximum upto 8 Channels in any Input combination as per users requirement.

*** INPUT & RANGE :-**

INPUT	RANGE		Resolution	Accuracy
	Minimum	Maximum	Normal	Full Scale
PT-100 (3 WIRE)	-99.9 Deg C	500.0 Deg C	0.1	±0.25%
J (FE-CON)	-99.9 Deg C	450.0 Deg C	0.1	±0.25%
K(Cr-Al)	-99.9 Deg C	500.0 Deg C	0.1	±0.25%
K (Cr/Al)	-100 Deg C	1200 Deg C	1	±0.25%
R (Pt/Pt-Rh13%)/ S (Pt/Pt-Rh 10%)	0 Deg C	1750 Deg C	1	±0.25%
T (Cu/Con)	0.0 Deg C	400.0 Deg C	0.1	±0.25%
4-20 mA / 0-20 mA	-999	9999	By user	±0.25%
0-10 V DC / 0-50 m V DC	-999	9999	By user	±0.25%

- Compensation** : Automatic Cold Junction Compensation for all thermocouples.
- Display** : 4 digits of 13 mm. height L.E.D for process value display.
: 1 digit of 13mm. height L.E.D for channel number display.
: 8 L.E.Ds for Alarm Indication. AL1 L.E.D get ON, AL 2 L.E.D's get continous blink.
- Memory** : Datastore capacity of 5000 readings for all channel (total 125KB memory).
- Setting** : 5 feathers touch keys on front panel.
- Alarms** : 2 independent set points individual for each channels with 2 common relay output.
- Output** : 1 NO / C / NC Relay contact rated 230V / 5A for relay1 (AL1) & relay2 (AL2).
- Port** : RS-232/RS-485 Serial port with Modbus output or parallel centronics port for 80 column computer printer for direct printout.
- Supply** : 230VAC A10%, OR 110VAC A10%, 50Hz.
- Mounting** : Panel mounting.
- Dimension** : 96(W) X 96(H) X 175(D) in mm.
- Cutout** : 92(W) X 92(H) in mm.
- Cabinet** : ABS plastic, white colour.
- Optional** : a) Datalog Data Acquisition windows based software for real time trending.
: b) Parallel port for direct printout on 80 column dot-matrix / printer without need of computer(PC)
: c) Individual relay O/P can be given for each channel or with grouping O/P.
- Weight** : 750 gram (approx.).

BACK VIEW

SR NO: _____ INPUT _____
MODEL NO: tC 800D SUPPLY _____

P } PHASE NO1 } "NO" FOR ALARM RELAY
N } NEUTRAL C1 } COMMON FOR ALARM RELAY
E } EARTH NC1 } "NC" FOR ALARM RELAY

A+ } CHANNEL NO2 } "NO" FOR TRIP RELAY
B- } ANALOG C2 } COMMON FOR TRIP RELAY
C- } INPUT NC2 } "NC" FOR TRIP RELAY

ORDERING INFORMATION:-

tC-800D A B C D E F

C: RELAY OUTPUT
0) NONE
1) 2 COMMON RELAY
2) 8 aLARM RELAY
3) 16 ALARM RELAY

B: INPUT TYPE
1) J (Fr/Con)
2) K (Cr/Al)
3) R (Pt/Pt-Rh 13%)
4) S (Pt/Pt- Rh 10%)
5) T (Cu/Con)
6) RTD (PT 100)
7) 4 TO 20 mA.
8) 0 TO 10 V DC
9) ASSORTED INPUTS
(TO BE SPECIFIED CHNL WISE)

F: PC BASED SOFTWARE
0) NONE
1) DATALOG
2) WINLOG SCADA

E: COMMUNICATION PORT
0) NONE
1) RS 232 SERIAL PORT
2) RS 485 SERIAL PORT
3) CENTRONIX PARALLEL