UIP-1600 SERIES

UNIVERSAL DATA SCANNER / LOGGER

UNIVERSAL DATA LOGGER

CHANNEL   PROCESS VALUE
16   **0030**

UIP - 1600 / UIP - 1600D - PMH
PANEL MOUNT HORIZONTAL

UNIVERSAL DATA LOGGER

CHANNEL   PROCESS VALUE
16   **0030**

UIP - 1600D - WP

UIP - 1600 / UIP - 1600D - WP
WEATHERPROOF

Remote Area

Safe Area / Control Room

MAX 2 meter

MAX 1000m
RS-485 TO RS-232 /USB/ CONVERTER   MAX 2 meter

EPSON LX-310+

DIRECT PRINTOUT ON EPSON LX-310 DOT MATRIX SERIAL PRINTER (9 pin connector)

CH-1   CH-2   CH-3 ....CH-16

| TC / RTD SENSOR | TEMPERATURE TRANSMITTER | TEMP. / RH TRANSMITTER | FLAMEPROOF PROCESS TRANSMITTER |

24VDC External power supply

Data acquisition software

Alarm-1   **Alarm-2**   **Healthy Indication**
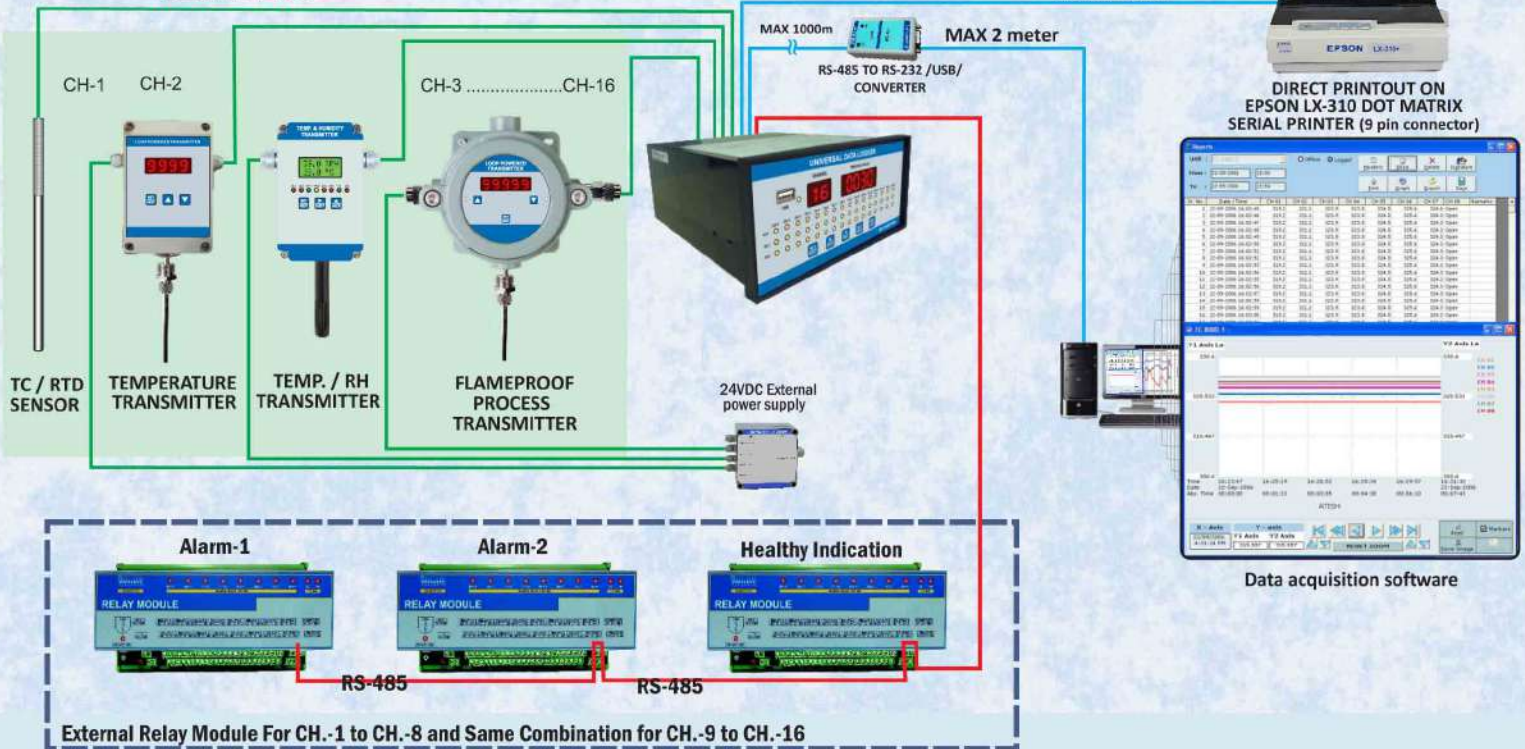
RELAY MODULE   RELAY MODULE   RELAY MODULE

RS-485   RS-485

External Relay Module For CH.-1 to CH.-8 and Same Combination for CH.-9 to CH.-16

Features

- Used latest micro controller based technology for better accuracy.
- 16 Channel Universal input for all thermocouple, J, K, R, S, T, B, N & RTD (PT-100), 4-20mA, programmable by user.
- Easy on-line field calibration by front panel membrane keypad.
- Field programmable channel scan time 1 to 240 sec., Logging interval 1 to 9999 sec & Printing Interval 1 to 9999 sec.
- Remote acknowledgment facility for Relays.
- Optional RS-485 Modbus Serial Port.
- Optional serial Printing Port.
- Optional USB Host (Pen Drive) connectivity for online / logged data report.
- Optional Separate external relay module for Alarm-1,Alarm-2 & Healthy Indication; Provided separate relay output per channel for AL1, AL2 & Healthy Indication.

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.
- Warehouse temperature monitoring, Blood Bank monitoring.

MUST FOR YOUR PROCESS

TECHNICAL SPECIFICATIONS

INPUTS	RANGE		RESOLUTION	ACCURACY
	Minimum	Maximum	NORMAL	FULL SCALE
RTD PT-100- (Resolution)	- 99.9°C	400.0°C	0.1	± 0.25%
RTD PT-100 (Without Resolution)	- 99°C	400 °C	1	± 0.25%
J - Type (Fe - CON)	-100°C	750°C	1	± 0.25%
K - Type (Cr - Al)	-100°C	1200°C	1	± 0.25%
R-Type (PT - 13%Rh / PT), S-Type (PT - 10%RH / PT)	-50°C	1750°C	1	± 0.25%
T - Type (Cu / CON)	-100°C	400°C	1	± 0.25%
B-Type (PT 30% Rh / PT 6% Rh)	+400°C	1820°C	1	± 0.25%
N - Type	-100°C	1200°C	1	± 0.25%
4 To 20mA	- 999	9999	Programmable by user	± 0.25%

General :

Display : 4 digits of 13 mm height Red L.E.D display for 'Process Value' indication
2 digit of 13 mm height Red L.E.D display for 'Channel Number' indication

Control Action : Low /High control action for the Alarm 1 & Alarm 2 user programmable.

Setting : Setting by 5 keys on front panel 'SET/NEXT', 'INCREMENT', 'DECREMENT', 'ENTER/HOLD', 'ESC/ACK' for PM & WP model and push button keys for Flameproof model.

LED Indication : 16 Nos Red LEDs of 3 mm for each for Alarm1, Alarm 2, Healthy indications for CH-1 to CH-16

Set Point : 2 independent set points for each channel with 4 common relay outputs & Relay can be used common for CH-1 TO CH-16 or can be assign to particular channel also, user programmable, programmable latch/ non-latch facility for 4 common relays

Relay Output : 1 NO/C/NC Relay Contact Rated 5A/230VAC, for Relay-1, Relay-2, Relay-3, Relay-4
Remote acknowledgment facility for Relays.

Note : If fail safe relay condition select yes, then we can use three relay for alarm condition.

Performance :

Monitoring of Error Condition : Temperature sensor 'Break / Open' display shows 'oPEn' indication. Under range 'Undr'. Over range 'ouEr' indication for RTD & all Thermocouple Inputs

Scan Time : 1 to 240 sec scan time between each channel; programmable by user

Print Interval (Optional) : 1 to 9999 Sec for Direct print out on 80 Column EPSON LX-310 Dot Matrix Serial Printer

Logging Interval (Optional) : 1 to 9999 Sec log interval for data logger model; programmable by user

Logging internal memory (Optional) : Max.8000 readings storing capacity for all 16 channel **Data Logger model.**

Electrical :

Supply Voltage : 90 to 270 VAC, 50Hz OR 110 VDC to 270VDC

Environmental :

Operating Temperature : -10°C To 60° C
Relative Humidity : Below 95% non condensing

Optional :

a) Isolated RS-485-1 serial port with MODBUS RTU protocol output.

b) Isolated RS-485-2 for External Alarm Relay Module.

c) Isolated serial port for direct printout on 80 column Dot Matrix serial printer without need of Computer (PC)

d) USB host (Pen Drive) connectivity for online and log data report immediate (Use FAT-32 configure Pen Drive).

e) Data Acquisition Softwares for online graphs & history data reports

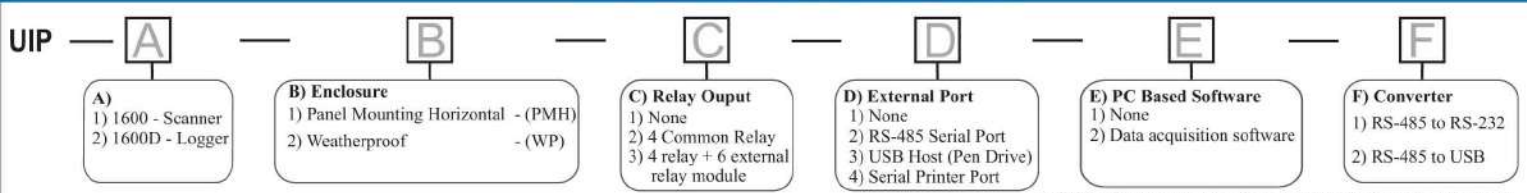**Note :** 'c' and 'd' not available in FLP Model.

Panel Mount Housing :

Protection Class : IP-40
Cabinet Material : ABS Plastic, Black colour
Cable Entry : Terminal Connector for Connection
Dimension for PMH : 96mm (H) x 192 mm (W) x 225 mm (D) (with connector)
Cutout for PMH : 88 mm (H) x 182 mm (W)
Mounting : Panel Mounting
Weight : Approx 1.5Kg

Weatherproof Housing :

Protection Class : IP-65
Cabinet Material : Polycarbonate, grey colour
Cable Entry : Thermoplastic cable gland (IP 68)
Dimension : 305 mm (H) x 325 mm (W) x 170 mm (D) (with gland)
Mounting : Wall Mounting / Stand Mounting
Weight : Approx 2.5 Kg

ORDERING INFORMATION

UIP — A — B — C — D — E — F

A)
1) 1600 - Scanner
2) 1600D - Logger

B) Enclosure
1) Panel Mounting Horizontal - (PMH)
2) Weatherproof - (WP)

C) Relay Ouput
1) None
2) 4 Common Relay
3) 4 relay + 6 external relay module

D) External Port
1) None
2) RS-485 Serial Port
3) USB Host (Pen Drive)
4) Serial Printer Port

E) PC Based Software
1) None
2) Data acquisition software

F) Converter
1) RS-485 to RS-232
2) RS-485 to USB

NOTE : For any customize requirement contact factory

Specifications subject to change without any prior notice

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