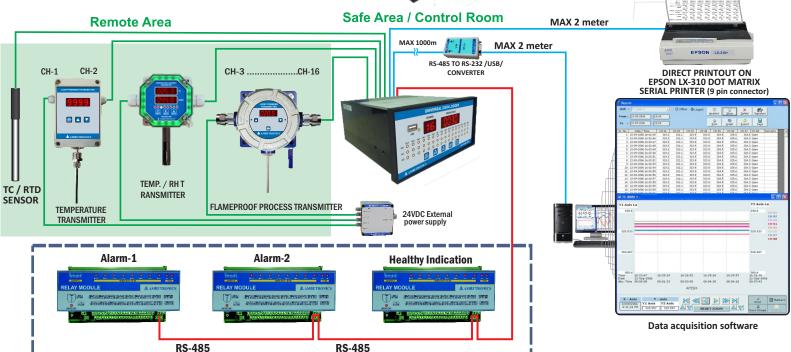
UIP-1600-PM Universal Data Scanner / Logger



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





Features

Used latest microcontroller based technology for better accuracy

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

- 16 channel universal input for all thermocouple types (J,K,R,S,T,B,N) & RTD (PT-100), and 4-20mA programmable by user
- · Easy on-line field calibration by front panel membrane keypad
- Field programmable channel scan time 1-240 sec., logging interval 1-9999 sec & printing interval 1-9999 sec.
- Remote acknowledgement facility for relays
- · Optional RS-485 Modbus serial port
- Optional Serial Printing Port
- Optional USB host(For Pen Drive) 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

- · Warehouse monitoring in pharmaceutical industry
- . ISO Certification records, Validation process
- Online profile recording for Oven & BOD, Incubator, Humidity Chamber
- · Room Mapping in pharmaceutical warehouses
- · Blood bank monitoring
- Pharmaceutical process validation with graph and excel report in Autoclaves
- · Winding temperature for generators, bearing, 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

MUST FOR HUMAN & INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

TECHNICAL STECHTICATIONS				
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	0.1	± 0.25%
B-Type (PT 30% 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

Control Action

Display : 4 digits of 13 mm height Red L.E.D 7 segment display for 'Process Value' indication 2 digit of 13 mm height Red

L.E.D 7 segment display for 'Channel Number' indication

: Low / High control action for the Alarm 1 & Alarm 2

(user programmable)

: Setting by 5 keypad on front panel 'SET/NEXT', Setting

> '8/DECREMENT', 'ENTER/HOLD', 'ESC/ACK' for Panel Mount & WP model and push button keys for FLP model.

L.E.D. Indication : 8/16 Nos. RED LEDs of 3mm each for alarm 1, alarm 2, Healthy indications for CH-1 to CH-8/CH-1 to CH-16 for

UIP-800/UIP-1600 respectively.

Set Point : 2 independent user programmable set points for each

> channel with 4 common relay outputs & relay outputs common for CH-1 to CH-8/ CH-1 to CH-16 assignable to a particular channel. User settable latching for 4 common relays. If fail safe condition is needed then only

3 relays will be available for alarms.

Relay Output : Relay output -NO/C/NC Relay Contact rated 5A/ 230VAC, for Relay-1, Relay-2, Relay-3 and Relay-4.

Remote acknowledgement facility for Relays

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

Performance

Monitoring of Error : Temperature sensor 'Break / Open' display shows Condition

'ಎPE a' indication. Under range 'ಟಿಎರ್ಡ'. Over range 'வட்ட் ' indication for RTD & all Thermocouple Inputs

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

programmable by user

Print Interval : 1 to 9999 Sec for Direct print out on 80 Column

(Optional) **EPSON LX-310 Dot Matrix Serial Printer**

: 1 to 9999 Sec log interval for data logger model; **Logging Interval**

(Optional) programmable by user

Logging internal memory: Max.8000 readings storing capacity for all

(Optional) 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.
- Isolated RS-485-2 for External Alarm Relay Module.
- Isolated serial port for direct printout on 80 column Dot Matrix serial printer without need of Computer (PC)
- 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

Terminal Connector for Connection Cable Entry

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



1) 1600 - Scanner

2) 1600D - Logger



Panel Mounting













- 2) RS-485 Serial Port
- 3) USB Host (Pen Drive) 4) Serial Printer Port
- D) Converter
- 1) RS-485 to USB
- 2) RS-485 to Ethernet

E) PC Based Software

- 1) None
- 2) Smartlog Pro 1.0 (21CFR Part 11 comp.)
- 3) Smartlog Pro 2.0

NOTE: • Optional Relay Module card for both Scanner and Logger • For any customize requirement contact factory

Manufactured by:

























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Specifications subject to change without any prior notice