

UIP-800-PM

Universal Data Scanner / Logger



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

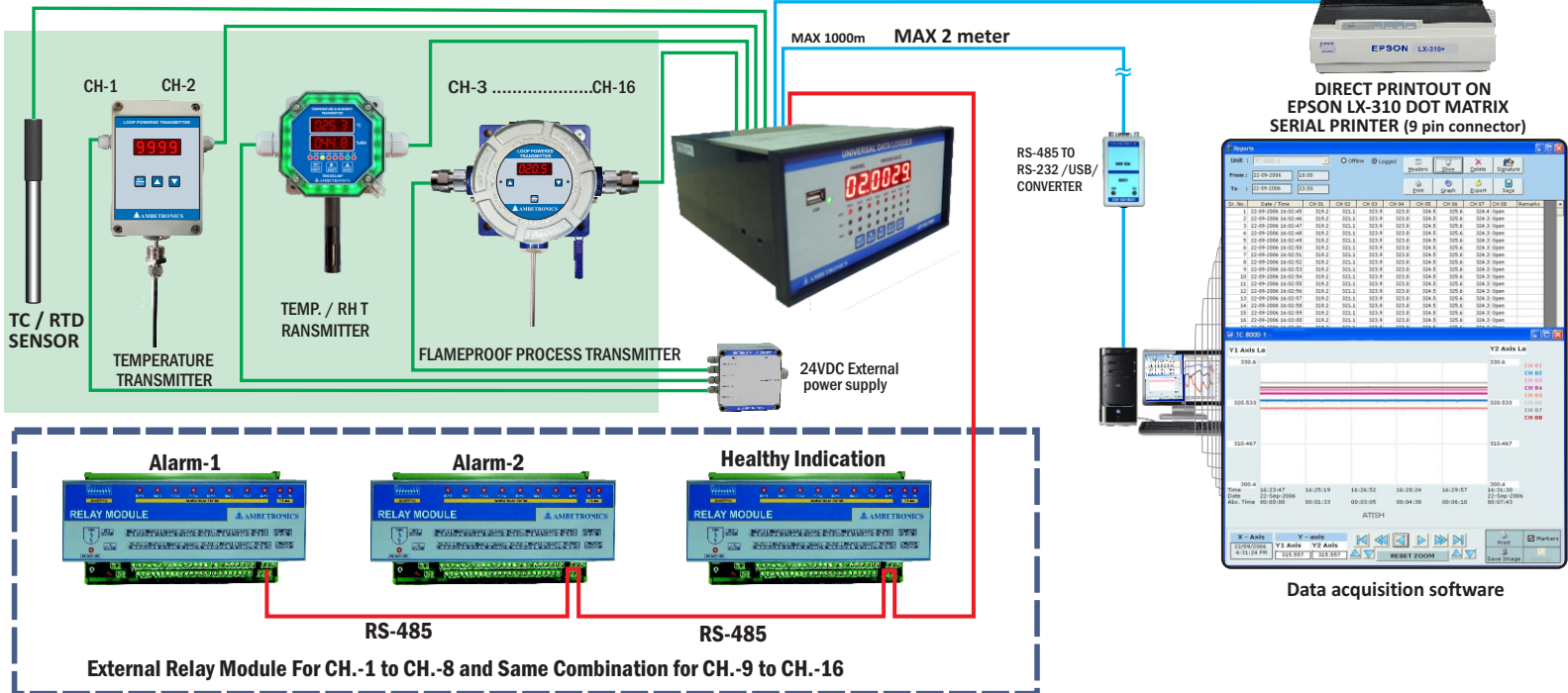
UIP-800 / UIP-800D-PMH PANEL MOUNT HORIZONTAL



Remote Area

Safe Area / Control Room

MAX 2 meter



Features

- Used latest micro controller based technology for better accuracy.
- 8 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 9999sec & 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 HUMAN & INDUSTRIAL SAFETY

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	0.1	± 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** : 8 Nos Red LEDs of 3 mm for each Alarm1, Alarm 2, Healthy indications for CH-1 to CH-8
- Set Point** : 2 independent set points for each channel with 4 common relay outputs & Relay can be used common for CH-1 TO CH-8 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 'oPEr' indication. Under range 'Undr'.
Over range 'oUr' 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 8 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

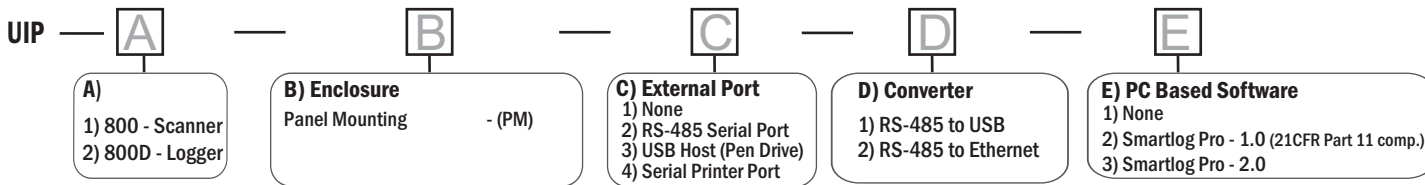
- Isolated RS-485-1 serial port with MODBUS RTU protocol output.
- Isolated RS-485-2 for External Alarm Relay Module.
- Isolated serial port for direct printout on 80 column Dot Matrix serial printer without need of Computer (PC)
- USB host (Pen Drive) connectivity for online and log data report immediate (Use FAT-32 configure Pen Drive).
- 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 1Kg

ORDERING INFORMATION



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

Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

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