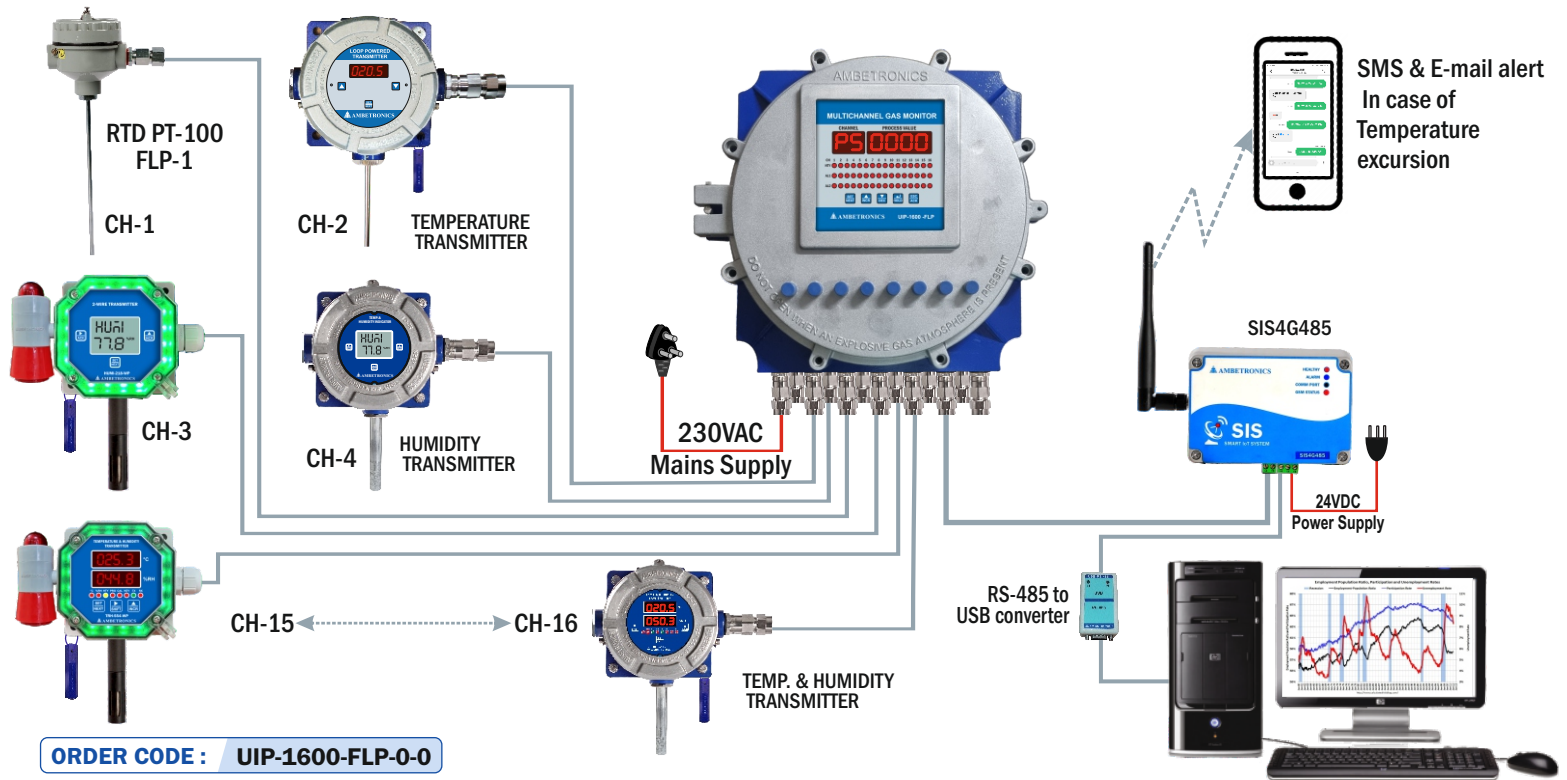


UIP-1600 -FLP

Universal Data Scanner/Logger



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY



ORDER CODE : **UIP-1600-FLP-0-0**

Features

- Used latest microcontroller based technology for better accuracy
- 16 channel input 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

- Fertilizer Plants
- Oil & Gas Industries
- Chemical Storage Area
- Refineries
- Chemical Processing Plant
- Offshore Drilling & Processing Platforms
- Gas Metering Stations
- Bullet Yard / Storage Yard
- Gas Pipeline Projects
- Chemical & Petrochemical Plants
- Hotel Industries
- Power Industrial Plants

Approvals & Compliance

CIMFR TR NO : IN/CIMFR/TR22/P/3751 Dt. : 15/03/2022
 PESO CERT. NO. : P538248/2 Dt. : 14/06/2022
 BIS MARK LICENCE NO. : 7800046916
 Almasphere Zone 1 and Zone 2
 including Gas group IIA, IIB & IIC
 IS/IEC 60079 - 0 : 2011
 IS/IEC 60079 - II : 2006
 IS/IEC 60529 : 2001 (IP-66)

TECHNICAL SPECIFICATIONS

| INPUTS | RANGE | | RESOLUTION | ACCURACY |
|---|----------|---------|-------------------------|------------|
| | Minimum | Maximum | NORMAL | FULL SCALE |
| RTD PT-100 (3 WIRE) / ((4 WIRE) | - 200°C | 400.0°C | 0.1 | ± 0.25% |
| RTD (Cu-53) | - 50.0°C | 150.0°C | 0.1 | ± 0.25% |
| J - Type (Fe - CON) | - 50.0°C | 600.0°C | 0.1 | ± 0.25% |
| K - Type (Cr - Al) | - 50.0°C | 500°C | 0.1 | ± 0.25% |
| K - Type (Cr - Al), | - 100°C | 1200°C | 1 | ± 0.25% |
| R-Type (PT - 13%Rh / PT), S-Type (PT - 13%Rh / PT) | 0°C | 1750°C | 1 | ± 0.25% |
| T - Type (Cu / CON) | -200°C | 400.0°C | 0.1 | ± 0.25% |
| N-Type, E-Type (NI Cr / CON) | 0°C | 1300°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 | - 9999 | 99999 | Programmable By user | ± 0.25% |
| Voltage (0 To 1 VDC / 0 To 10 VDC) | - 9999 | 99999 | | ± 0.25% |

MUST FOR HUMAN & INDUSTRIAL SAFETY

Technical Specifications

General :

- 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
- Input** : 4-20mA
- Range** : 0-9999
- Accuracy** : ± 0.25%
- Control Action** : Low /High control action for the Alarm 1 & Alarm 2 (user programmable)
- Setting** : Setting by 5 keypad on front panel 'SET/NEXT', '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. For Relay-1, Relay-2, Relay-3 and Relay-4. Remote Acknowledgment facility for Relays

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

Electrical :

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

Environmental :

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

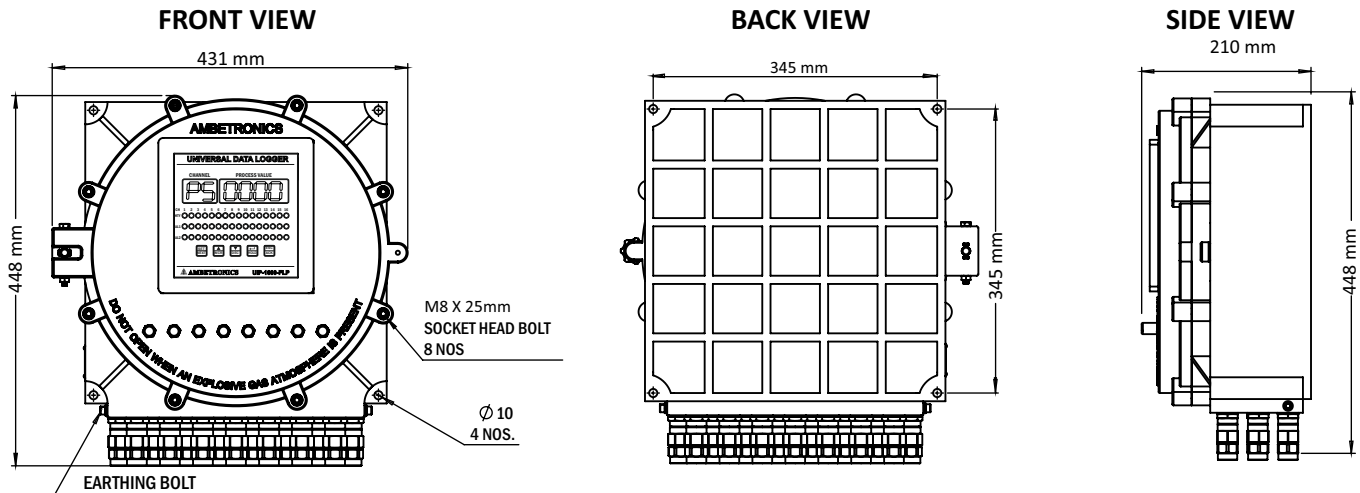
Performance

- Monitoring of Error Condition** : Gas Detector 'Break / Open' display shows 'oPen' indication. Under range 'Undr'. Over range 'ouEr' indication for Gas Detector 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.

Flameproof Housing :

- Degree of Protection Class** : IP-66
- CIMFR CERTIFICATE NO. : IN/CIMFR/TR22/P/3751 Dt. : 15/03/2022
 - PESO CERTIFICATE NO. : P538248/2 Dt. : 14/06/2022
- Housing Material** : cast Aluminum LM6 Alloy Enclosure
- Cable Entry** : Flameproof, Weatherproof IP66 Double compression cable gland (Ex d) Model No. : CG/FLP/2C M20 x 1.5 (P) & M25 x 1.5(P), ½" NPT & ¾" NPT
- CIMFR CERTIFICATE NO. : IN/CIMFR/TR21/R/2147 Dt. : 12/10/2021
 - PESO CERTIFICATE NO. : P538850/7 Dt. : 16/06/2022
- Dimension** : 448 (H) (with cable gland) x 431 (W) x 210 (D) in mm
- Mounting** : Wall Mounting / Stand Mounting
- Weight** : Approx 12 Kg

DIMENSIONAL DETAILS



ORDERING INFORMATION

UIP-1600-FLP-X-X

- MODEL NO.**
0) 1600 SCANNER
1) 1600D LOGGER
- ENCLOSURE**
- RS-485**
0) NONE
1) YES
- USB INTERFACE**
0) NONE
1) YES

Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

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Version : UIP-1600-FLP-0-0-R1-15-09-2023