

30+
Years of Expertise

**Largest
Manufacturer
of India**

**Visit our Factory
for Live
Demonstration**

Your Partner for Cold Chain Solutions System & Environmental Monitoring System

• We Measure • Record • Report • Analyze !

Manufacturer of :

- Data Scanners / Loggers
- Temperature / RH Transmitters / Hygrometer
- iot Product Range
- Clean Room Monitors
- 21 CFR Compliant Software
- Portable Data Loggers
- Thermal Mapping for Pharma Warehouses
- Ambient Air Quality Monitoring



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DATA SCANNER & LOGGER SERIES

TC-800-PM



- Fixed Input Panel Mount
- Log 5000 Records
- 2 Common Relay Output
- RS-485

TC-800-WP



- Fixed Input Wall Mount
- 2 Common Relay Output
- RS-485 O/P
- Log 5000 Records
- IP-65

TC-800-FLP



- Fixed Input Wall Mount
- 2 Common Relay Output
- RS-485
- Log 5000 Records
- Exd IIA/IIB • IP-66

TC-800-MS



- Fixed Input Wall Mount
- 2 Common Relay Output
- RS-485 O/P
- Log 5000 Records
- IP-50

UNIVERSAL DATA SCANNER & LOGGER SERIES - 8 CHANNELS

UIP-800-PMH



- Universal Input
- Isolated RS-485 O/P
- 4 Common Relay O/P
- USB data Logging
- Addon Relays

UIP-800-WP



- Universal Input, RTD, Thermocouple, 4-20mA
- 4 Common Relay Output
- Isolated RS-485 Output
- Log 8000 Records
- USB data Logging
- IP-65

UIP-800-FLP



- Universal Input
- 4 Common Relay O/P
- Addon Relays
- Isolated RS-485 O/P
- USB data Logging
- Exd IIA/IIB
- IP-66

UIP-800-MS



- Universal Input
- 4 Common Relay O/P
- Addon Relay
- Isolated RS-485 O/P
- USB data Logging
- Ethernet WiFi
- Lora & Lorawan

UNIVERSAL DATA SCANNER & LOGGER SERIES - 16 CHANNELS

UIP-1600-PMH



- Universal Input
- 4 Common Relay O/P
- Addon Relays
- Isolated RS-485 O/P
- USB data Logging

UIP-1600-WP



- Universal Input, RTD, Thermocouple, 4-20mA
- 4 Common Relay Output
- Isolated RS-485 Output
- Log 8000 Records
- USB data Logging
- IP-65

UIP-1600-FLP



- Universal Input
- 4 Common Relay O/P
- Addon Relays
- Isolated RS-485 O/P
- USB data Logging
- Exd IIA/IIB
- IP-66

UIP-1600-MS



- Universal Input
- 4 Common Relay O/P
- Addon Relay
- Isolated RS-485 O/P
- USB data Logging
- Ethernet WiFi
- Lora & Lorawan

REMOTE MONITORING SYSTEM

HMI -WP



- Display : 4.3", 7" & 10.2"
- OUTPUT : 2 relay, RS-485, TCP/IP (Optional)
- Alarm indication
- INPUT : RTD PT-100, thermocouple, 4-20mA 0 to 10V

HMI -FLP



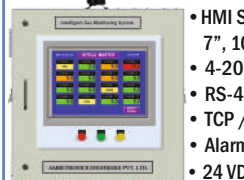
- Display : 4.3", 7" & 10.2"
- OUTPUT : 2 relay, RS-485, TCP/IP (Optional)
- Alarm indication
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HMI-MS



- Display : 4.3", 7" & 10.2"
- OUTPUT : 2 relay, RS-485, TCP/IP (Optional)
- Alarm indication
- INPUT : RTD PT-100, thermocouple, 4-20mA 0 to 10V

IM-4816/24/32 PANEL



- HMI Size Supported : 7", 10.2" & 12"
- 4-20mA Input
- RS-485 Input & Output
- TCP / IP (Optional)
- Alarm indication
- 24 VDC or Potential free
- Relay outputs for Valves & Alarms
- Data Logging, Alarm and Audit reports, etc.

3 - WIRE TEMPERATURE & HUMIDITY TRANSMITTERS

TRH-554-WP



- Fast and reliable output.
- Temp. range : -20 to 60°C with accuracy of $\pm 0.5^\circ\text{C}$.
- Relative Humidity range is 0 to 100%RH with accuracy of $\pm 2\%RH$.
- Output : 4-20mA, RS-485 relay outputs

TRH-554-FLP-HCF



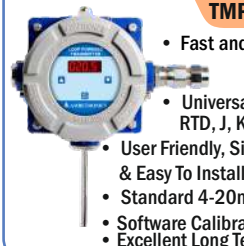
- Dual LED Display for Temp. & RH Indication
- 2x4-20mA current output each for Temp. & RH
- CMRI Tested Enclosure & Hooter cum Flasher
- Inbuilt Hooter cum Flasher
- Exd IIC T6 • IP-66

TMP-215-WP



- Fast and reliable output
- Universal type Input : RTD, J, K, R, S
- User Friendly, Simple To Operate & Easy To Install
- Standard 4-20mA signal outputs with configurable range.

TMP-215-FLP



- Fast and reliable output
- Universal type Input : RTD, J, K, R, S
- User Friendly, Simple To Operate & Easy To Install
- Standard 4-20mA signal outputs
- Software Calibration- No Trimpots
- Excellent Long Term Stability

2-WIRE LOOP POWERED HUMIDITY TRANSMITTERS

HUMI-218-WP



- L.C.D. Display with Backlight
- Indication Humidity UNIT "%RH"
- Range - 0 to 100% RH
- Configurable Loop O/P, Load Max. 820 Ω @ 24VDC
- Max. 5 meter extended probe available
- IP-65

HUMI-218-FLP



- LCD Display with Backlight
- Indication Humidity UNIT "%RH"
- Range - 0 to 100% RH
- Configurable Loop O/P, Load Max. 820 Ω @ 24VDC
- CMRI Tested Enclosure
- Exd IIC T6 • IP-66
- Max. 5 meter extended probe available

DUCT MOUNT TEMP. & HUMIDITY TRANSMITTER

TRH-554-WP-DUCT



Cable length extended upto 5 meter

RTD PT-100-SENSORS

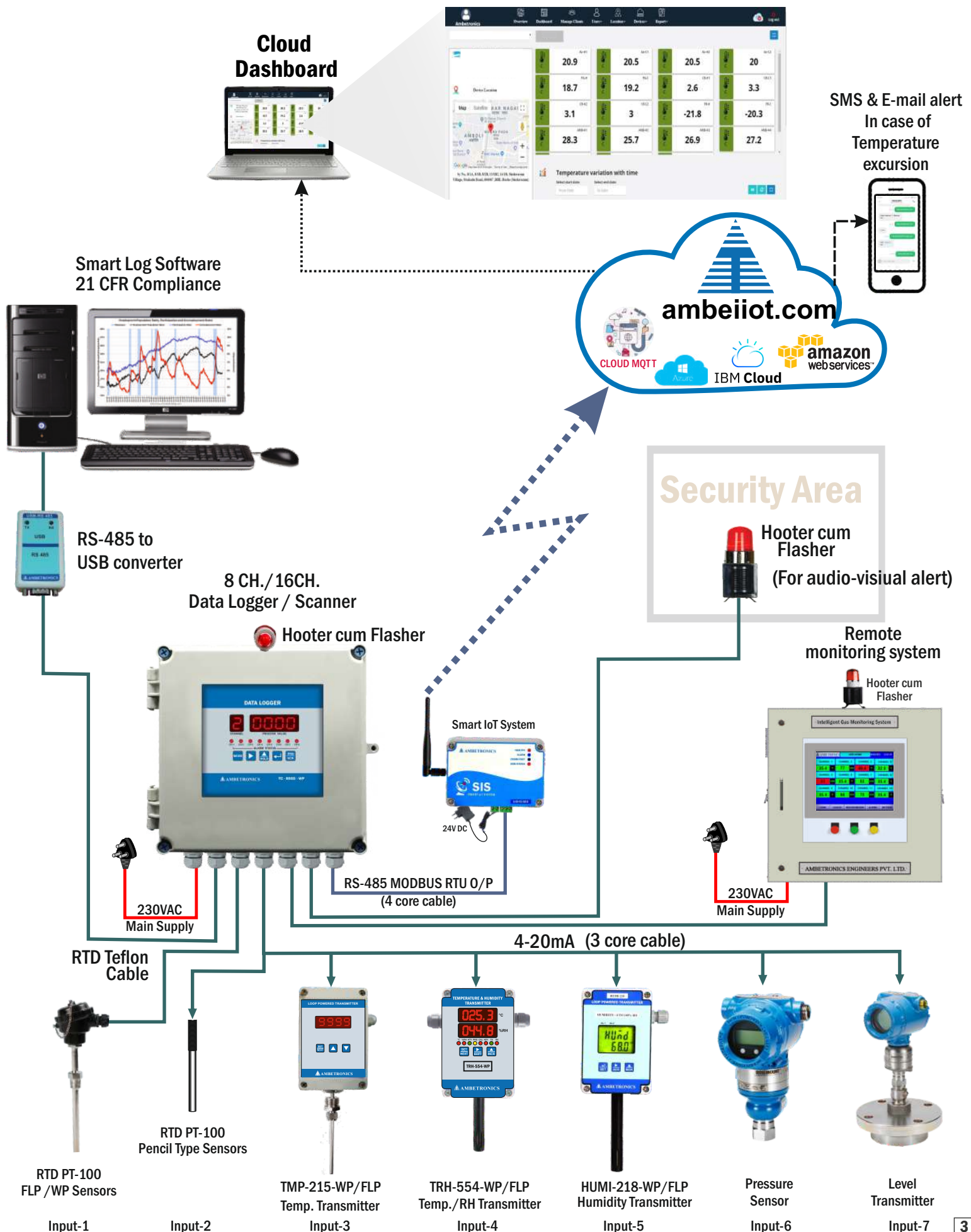
SENSORS



- Flameproof
- Weatherproof
- Sensor Accuracy : $\pm 0.5^\circ\text{C}$
- available in customized size
- Pencil Type

* FLP - Flameproof Enclosure * WP - Weatherproof Enclosure

* Kindly ask for detail Catalogue and specification of each product



SMART IOT SYSTEM

SIS4G485

- GSM connectivity (4G)
- MQTT (JSON)
- Dual SIM Slot for NW Redundancy
- 32- Nodes MODBUS RTU
- Isolated RS-485 Input & Output
- Settable Alarms
- SMS, E-mail & Voice Call alerts
- Network Failure Logging

SIS4D048

- GSM connectivity (4G)
- MQTT, HTTP, TCP-IP (JSON) Protocol
- Dual SIM Slot for NW Redundancy
- 48- Nodes MODBUS RTU
- Isolated RS-485 Input
- SMS & E-mail alerts
- Settable Alarms
- Universal Data Type
- Network Failure Logging

SISLTRH

- Cloud connectivity via Gateway
- LoRa connectivity
- 2 inbuilt sensors Temp. & RH
- Settable Alarms

SISWD485

- MQTT(JSON) Protocol
- 48 Nodes MODBUS RTU
- WiFi connectivity
- Isolated RS-485 Input
- Settable Alarms
- Network Failure Logging

SMART IOT GATEWAY - WEATHERPROOF

SIG4LRN-WP

- 48 Compatible Nodes
- Dual 4G SIM slot for NW Redundancy
- I/P communication LoRa
- Isolated RS-485 output
- MQTT (JSON)
- 4-DPDT relays for control action
- USB logging
- SMS & E-mail alert

SIG4GTU-WP

- 48 Compatible Nodes
- Dual 4G SIM slot for NW Redundancy
- Isolated RS-485 Input & Output
- MQTT (JSON)
- SMS & E-mail alert
- 4-DPDT relays for control action
- USB logging

SIGWGTY-WP

- 48 Compatible Nodes
- MQTT (JSON)
- WiFi connectivity
- Isolated RS-485 Input & Output
- 4-DPDT relays for control action
- SMS & E-mail alert via cloud

SMART IOT PORT

SIP4DRS

- MQTT, HTTP, TCP-IP (JSON) Protocol
- Dual SIM Slot for NW Redundancy
- SMS, E-mail & Voice call alerts
- Settable Alarms
- Universal Data Type
- Network Failure Logging

SMART IOT GATEWAY - MS

SIG4LRN-MS

- 48 Compatible Nodes
- Isolated RS-485 output
- Dual 4G SIM slot for NW Redundancy
- I/P communication LoRa
- MQTT (JSON)
- 4-DPDT relays for control action
- SMS & E-mail alert
- USB logging

SIG4GTU-MS

- 48 Compatible Nodes
- Dual 4G SIM slot for NW Redundancy
- Isolated RS-485 Input & Output
- MQTT (JSON)
- 4-DPDT relays for control action
- SMS & E-mail alert
- USB logging

SIG2MCM-MS

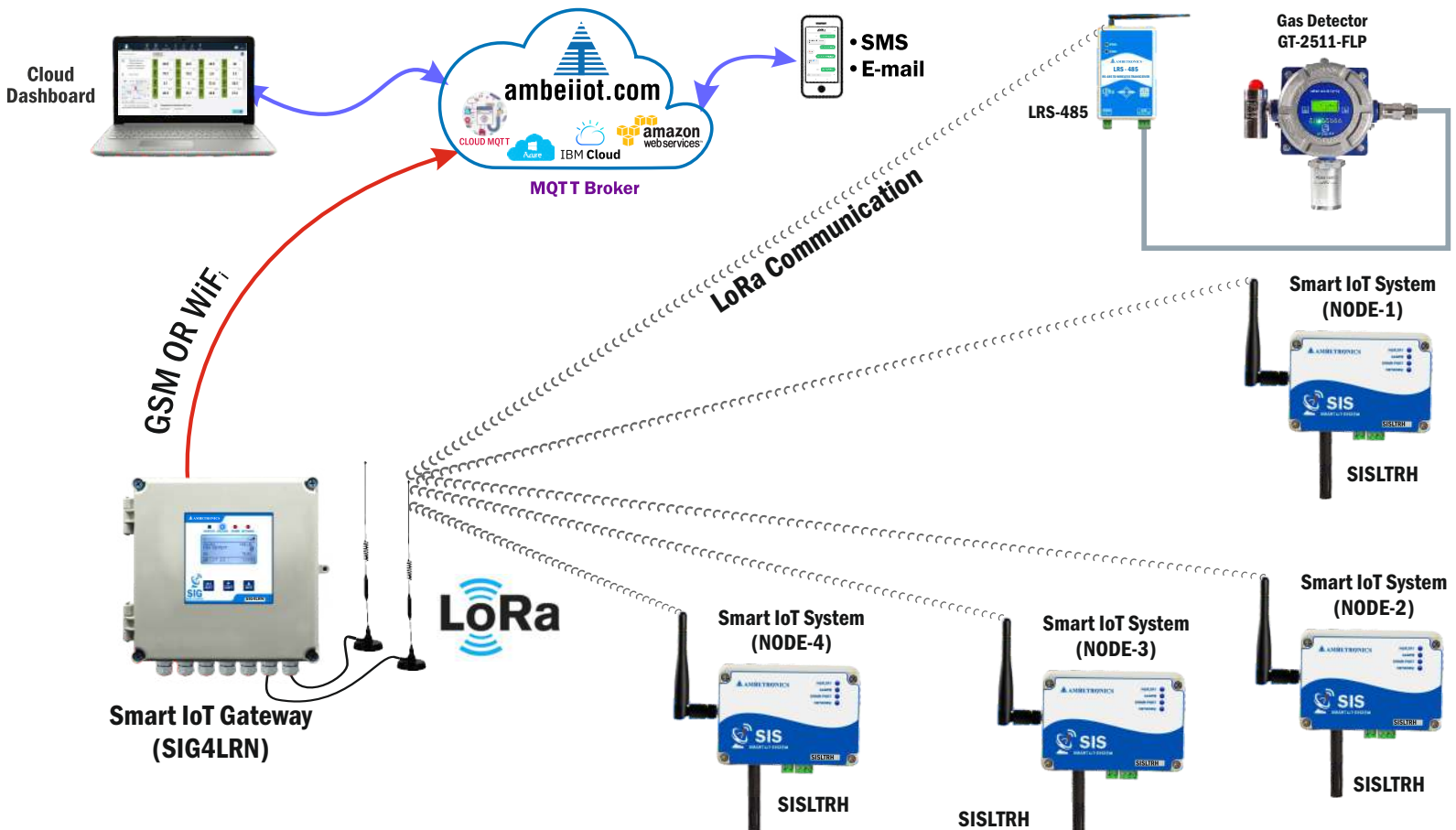
- 70 Compatible Nodes
- Isolated RS-485 Input & Output
- 4-DPDT relays for control action
- USB logging

RS-485 TO ETHERNET CONVERTOR

ERS-485

- Protocols support TCP,UDP, DHCP, HTTP, Server-Client, TELNET, Modbus TCP
- In-built HTTP Web Server for configuration
- Support Server and Client working mode
- Interface type : RS-485 & RJ45

Wireless Temperature & Humidity Monitoring System



CLEAN ROOM MONITOR SERIES

D.P. MONITOR

CRM-111-1



- Range : -1000 to 1000 Pascal

- User Programmable 2 no. Alarms AL1, AL2.
- Isolated RS-485 with Modbus RTU Protocol

TEMP. & RH MONITOR

CRM-212-R



Remote TRH Sensor

- Remote RH & Temp. Sensor
- Temp.: -20°C to 60°C, 0.1 Resolution
- Humidity : 0% to 100% RH, 0.1 Resolution
- Isolated RS-485 communication with Modbus RTU Protocol

TEMP./RH/D.P. MONITOR

CRM-313-R



Remote TRH Sensor

- 7 Segments L.E.D. display
- Isolated RS-485 communication with Modbus RTU Protocol
- Remote Temp. & RH sensor Inbuilt D.P.

HOOTER / FLASHER

CRM-HTR



- Flasher - Red Colour
- Hooter - Noise level 90db
- Operating Temp. : - 0 to 50°C
- Humidity : Below 90% RH, Non condensing
- Supply voltage : 24VDC $\pm$ 10%
- Power consumption : Less than 1.5 Watt at 24VDC

D.P. MONITOR (1")

CRM-131-1



- 7 Segments L.E.D. display for DP
- User Programmable 2Nos. Alarms AL1, AL2.
- Software calibration facility
- Isolated RS-485 with Modbus RTU Protocol

TEMP./RH MONITOR (1")

CRM-232-R



- L.E.D. display Indication for Temp., RH at a time

- Isolated RS-485 communication with Modbus RTU Protocol

TEMP./RH/D.P. MONITOR (1")

CRM-233-R



- 7 Segments L.E.D. display

- Isolated RS-485 communication with Modbus RTU Protocol
- Remote Temp. & RH sensor Inbuilt D.P.

REMOTE TEMP. / RH SENSOR

CRM-TRH SENSOR



- Temperature Range : 0-50°C
- Humidity Range : 0-100%RH

COMBUSTIBLE GAS MONITOR

CRM-111-3



- Combustible gas indication in % LEL.
- Range : 0 to 100 %LEL

- User Programmable Alarms AL1, AL2.
- Isolated RS-485 with Modbus RTU

OXYGEN GAS MONITOR

CRM-111-2



- Oxygen gas indication in % V/V
- Range : 0 to 25 %V/V

- User Programmable Alarms AL1, AL2.
- Isolated RS-485 with Modbus RTU

PROCESS MONITOR

CRM-111-4



- User Programmable Alarms AL1, AL2.
- Isolated RS-485 with Modbus RTU

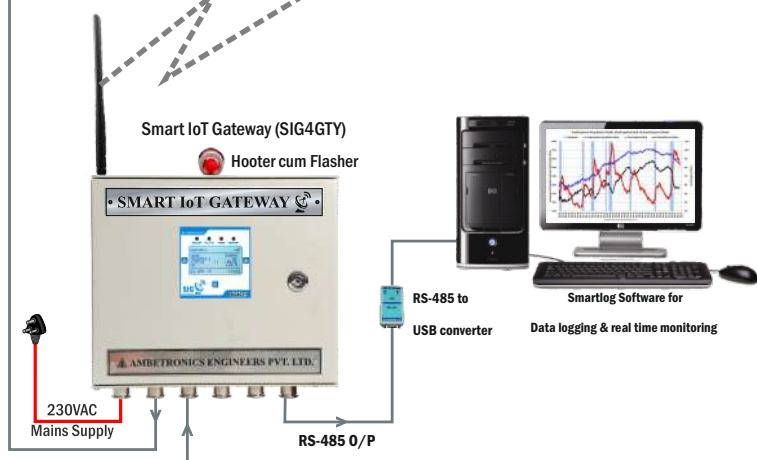
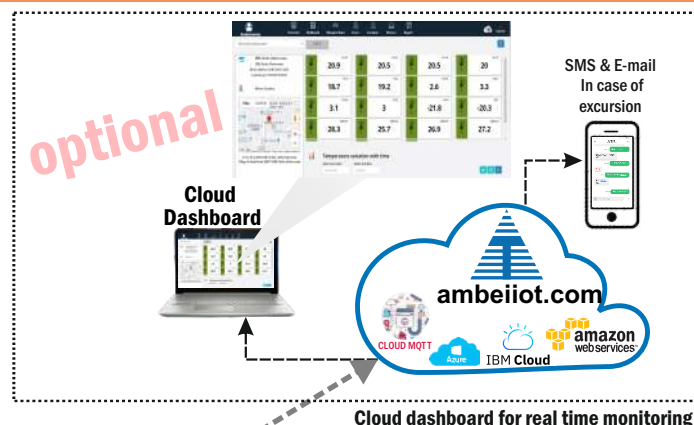
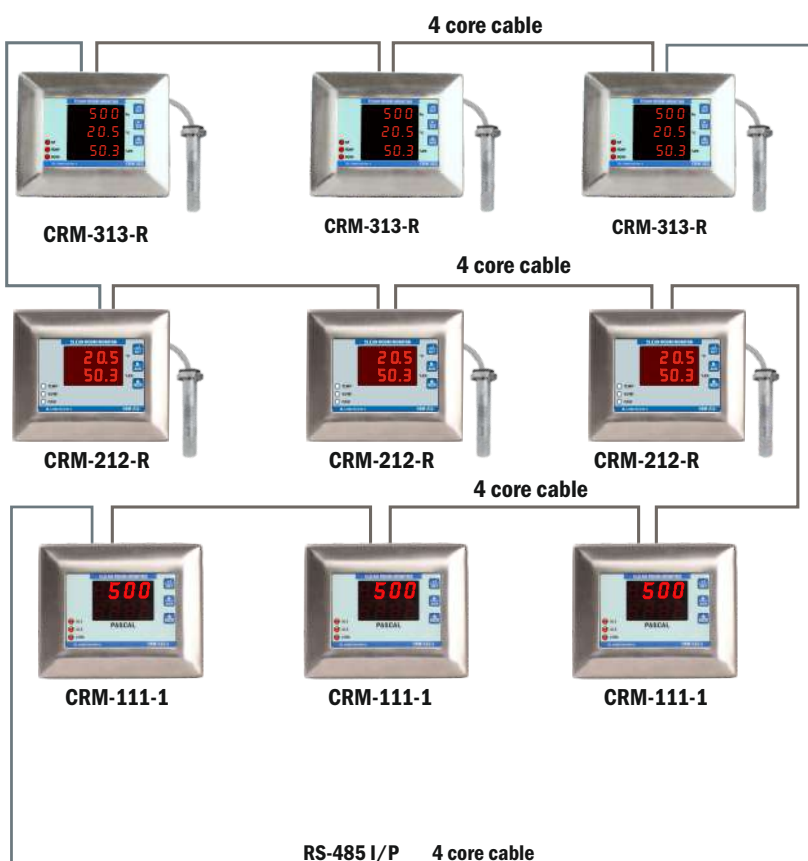
PROCESS MONITOR

CRM-485



- Input and Output RS-485 with Modbus RTU

Temperature, Humidity & D.P. Monitoring Area



TEMPERATURE & HUMIDITY INDICATOR (BATTERY OPERATED DEVICE)

TRH-100-WP - Battery operated, L.C.D. Display with Backlight - Battery life 1 year - Unit indication, Min/Max / Average function Auto or Manual reset facility - Rechargeable battery, RTC. - Max. 5 meter extended sensor probe available - IP-65	TRH-100-FLP - Battery operated, L.C.D. Display with Backlight - Battery life of 1 year - Unit indication, Min/Max / Average function Auto or Manual reset facility - Rechargeable battery, RTC. - CMRI Tested Enclosure - Exd IIC T6 • IP-66 - Max. 5 meter extended sensor probe available	TRH-100-WP  with extended probe Maximum 5 meter	BATTERY POWERED CLEAN ROOM MONITOR CRM-142-E  2 Line 4 digit segmental L.C.D display - Indication for Temp., Humidity - Inbuilt RTC - One year battery life - Battery status indication, Low Battery message on display. - Min / Max / Average value indication with Auto / Manual reset function
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HYGROMETER, DEW POINT, DIFFERENTIAL / ABSOLUTE PRESSURE METER SERIES

TRP-100-1 - Temp. & Humidity indication - Temp. : -20°C to 70°C - Humidity : 0 - 100% RH - Battery operated 10 days backup - Rechargeable Battery 50,000 log records - USB interface to computer	TRP-100-2 - Temperature & Humidity indication - Battery operated - Rechargeable Battery 50,000 log records - USB interface - Max. 5 meter extended sensor probe available	TRP-100-3/4 4 Nos. parameter - DP or Absolute Pressure indication - Battery operated - Rechargeable Battery 50,000 log records - USB interface - Extended probe available	TRP-100-5 - Differential Pressure measurement - Range : -100 to 100 mmWC - Display in mmHG, hPa, Pascal - Batteried powered - Rechargeable Battery 50,000 log records - USB interface to computer for download data
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TEMPERATURE USB DATA LOGGER

AZ-88160 - Plug & play tem. logger with USB 2.0 connector - Temp. range : -30~70°C - Accuracy : ±0.5°C - PDF file contains summary, graph and detailed data list. - En12830 and RoHS compliance	AZ-88164 - Plug & play PC software & Driver are not required - External RTD PT 1000 probe for ultra low temp. - Temp. range : -100~120°C - Accuracy : ±0.5°C	AZ-88165 - Plug & play PC software & Driver are not required - Built in PT 1000 sensor for dry ice temp. measuring - Temp. range : -80.0~70.0°C - Accuracy : ±0.5°C for full range	88162 - Plug & play temp. & %RH logger with USB 2.0 connector - Temp. range : -30 ~70°C, - RH range : 0.1~ 99.9 %RH - En12830 and RoHS compliance
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TEMPERATURE LOGGER

EBI-20T1

- Temp. Range : -30°C to 70°C
- Report : PDF, Excel
- Memory : 40,000 reading
- Software : 21CFR Part11 Compliant
- Temp. Accuracy : ± 0.5°C

TEMPERATURE/RH LOGGER

EBI-20TH1

- Temp. Range : -30°C to 70°C
- RH Range : 0 to 100%
- Report : PDF, Excel
- Memory : 40,000 reading
- Software : 21CFR Part11 Compliant
- Temp. Accuracy : ± 0.5°C
- RH Accuracy : ± 3% (10% to 90%) rest ±4%

USB DATA LOGGER

EBI-300

Range : -30°C to 70°C
Temp. Accuracy : ± 0.5°C (-20°C to +40°C) & rest ±0.8°C

Report : Automatic PDF
Memory : upto to 1,20,000

EBI-300-TH

- Range : -30°C to 70°C
- Accuracy (internal) : ± 0.5°C (-20°C to +40°C) & rest ±0.8°C
- Accuracy (external) : ± 0.5°C (-20°C to +40°C) & rest ±1.0°C
- Prob humidity : Capacitive
- Protection Class : IP 20

USB DATA LOGGER

EBI-300 TE

- Probe : NTC, Stainless steel
- Range (external) : -35°C to 70°C
- Range (internal) : -30°C to 70°C
- Accuracy (external & internal) : ± 0.5°C (-20°C to +40°C) & rest ±0.8°C

EBI-310

- Range : -35°C to 75°C
- Accuracy : ± 0.2°C (-30°C ... +30°C) & rest ± 0.5°C
- Resolution : 0.1°C
- Sensor : PT 1000

SINGLE USE TEMP. DATA LOGGER

Cold Chain PDF Logger

Range : -30°C to 70°C
Report : PDF
Memory : 8, 192
Temp. Accuracy : 0.5°C
Logging Interval : 30 Sec., 5, 10, 30, 60, 90, 120 min.
Shelf Life : 12 months
Resolution : 0.1°C

BUTTON TYPE TEMP. DATA LOGGER

i-Button

Part : DS1921G-F5 • Range : -40°C to 85°C
• Temp. Accuracy : ± 1°C (-30°C/+70°C)
• Memory: 2K

Part : DS1922L-F5 • Range: -40°C to 85°C
• Temp. Accuracy: ± 0.5°C (-10°C/+65°C)
• Memory: 8K

Accessories

3 Barrier Connector



- Zero resistance for RTD Teflon cable

Hooter cum Flasher - Weatherproof

HCF-WP-S-RH



- Red/Green/Amber Flasher
- Sound level : 95 / 100 dB
- M-20 Connection
- 24 VDC Supply

Hooter cum Flasher - Flameproof

HCF-FLP-IIC



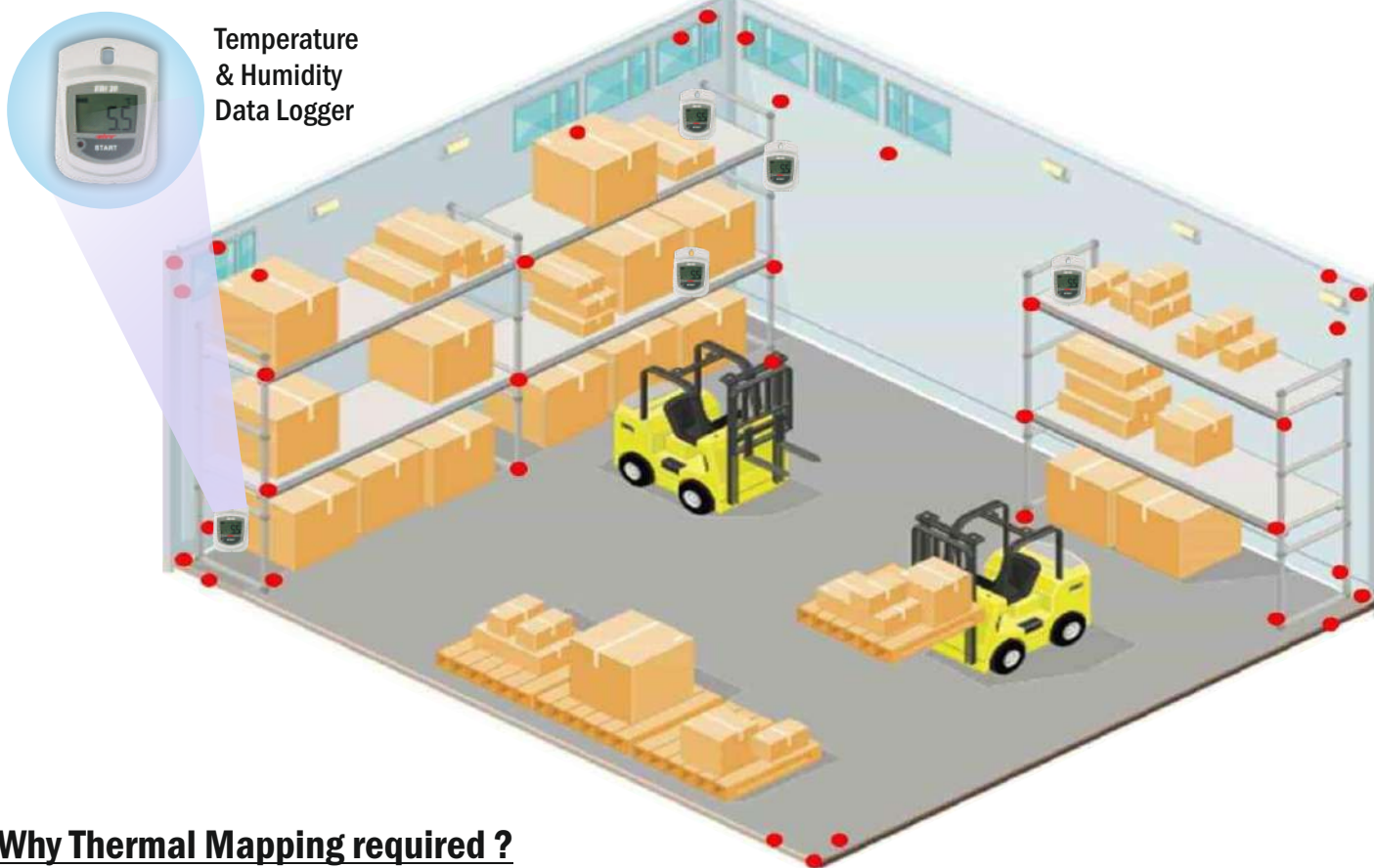
- Sound level : 90 dB
- Stainless Steel 316 / 304
- 24VDC/IP66

RS-485 to USB Converter

USB-RS485



- For connecting Data Logger to PC



Temperature
& Humidity
Data Logger

Why Thermal Mapping required ?

- Homogeneous temperature distribution within storage areas
- To identify routine monitoring locations i.e. Hot-Spot & Cold-Spot.
- To check the performance of a controlled warehouse
- To determine the cold and warm regions of the warehouse
- To identify and improve temperature/humidity ranges
- To determine seasonal variation within warehouse
- To re-validate the location of the existing fixed sensors of the current monitoring system

Services Offered

- Computer System Validation (CSV) complying regulatory requirements of good automated machine practice (GAMPS) USFDA 21CFR Part 11
- Thermal / RH Validation Complying regulatory requirements of WHO (World Health Organisation)
- System Qualification
- Annual Maintenance Contract (AMC)/ Comprehensive Maintenance Contract (CMC)
- Calibration Services (On-site / In-house)

Manufactured by :



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