CRM-313-I
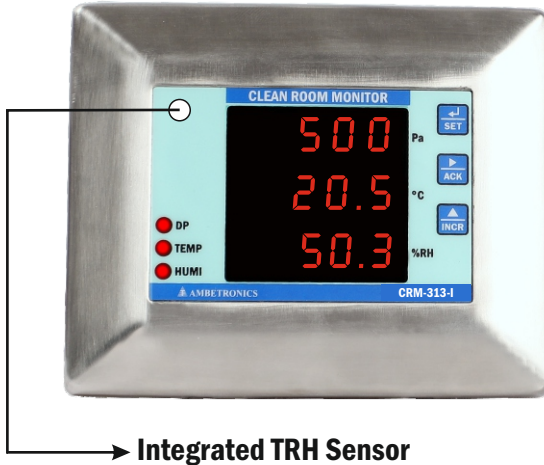
Clean Room Monitor For Differential Pressure, Temp. & RH Indication - Integrated Sensor

AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

Front View

Integrated TRH Sensor

→ Integrated TRH Sensor

Features

- 7 Segments L.E.D. display Indication for Temperature, Humidity & Differential Pressure at a time
- Integrated Temperature and Humidity sensor connection facility
- Independent Programmable Alarm for Temperature, Humidity and Differential Pressure
- Integrated Buzzer for Alarm limits violation with acknowledgment facility
- Software calibration facility
- Password protected programming
- Isolated RS-485 communication with Modbus RTU Protocol

Applications

- Clean room application in Pharmaceutical
- Pharma Environments monitoring applications
- HVAC (Heating, ventilation, Air conditioning, Cooling).
- Animal house clean room
- Cold Storage

TECHNICAL SPECIFICATIONS

Input

Temperature & Humidity Sensor	: Integrated
Differential Pressure Sensor	: Integrated Differential Pressure sensor with Brass Hose Nozzles (Chrome Plated) for +Ve & -Ve Pressure connection

Range & Resolution

Temperature	: -20.0°C to 70.0°C
Humidity	: 0% to 100% RH,
Display resolution	: 0.1 for Temperature and RH

Differential Pressure :

Sr. No.	Range	Resolution
DP 1	(-100 to 100) mmWC,	0.1
DP 2	(-10 to 10) cmWC,	0.1
DP 3	(-7.5 to 7.5) mmHG,	0.1
DP 4	(-1000 to 1000) Pascal,	1
DP 5	(-10 to 10) Hectopascal,	0.1

Note : Other Differential Pressure Range/Unit, Available on request, Contact factory.

Accuracy

Temperature	: ± 1°C
Humidity	: ± 3 % RH
Differential Pressure	: ± 1% of F.S.

Indication

Differential Pressure	: Upper 4 digit Seven Segment 0.4" Red L.E.D. display
Temperature	: Middle 4 digit Seven Segments 0.4" Red L.E.D. display
Humidity	: Lower 4 digit Seven Segment 0.4" Red L.E.D. display
Status indication	: 3 L.E.D.s for Alarms, one for each parameter
Audio Indication	: Integrated Buzzer for Alarm limits violation of any of the 3 parameters

Communication

RS-485 Slave	: Isolated RS-485 communication with Modbus RTU Protocol
Programmable Settings	: Baud rate (9600 bps), Parity (O/E/N), Data bits (8), Stop bits(1/2)
No. of salve ID	: 1-250
Minimum Polling Interval	: 500 milliseconds

Programmable Parameters

Set point	: Programmable as per input selection
Programming of parameters	: 3 Nos. push button front keys (with password protection)
Alarm logic	: High or Low, user programmable

MUST FOR HUMAN & INDUSTRIAL SAFETY

Environmental

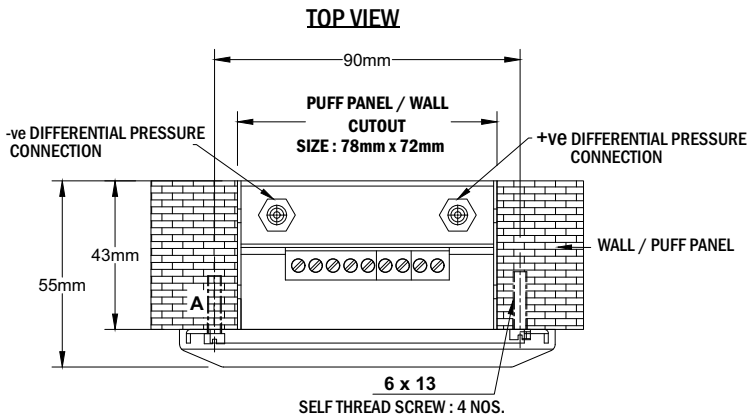|		
Operating Ambient Temp.	:	0 to 50°C
Humidity	:	Below 95% RH, Non condensing.

Electrical

Supply voltage	:	24VDC ±10%
Power consumption	:	Less than 1.2 watt at 24VDC

Dimensions

Flush mounting plate	:	SS-304
Front plate size	:	90 mm(H) x 110 mm(W)
Back enclosure	:	MS with powder coated
Overall Dimension	:	90mm(H) x 110 mm (W) x 43mm(D)
Mounting	:	Modular wall mounting with Stainless Steel Front

DIMENSIONAL DETAILS

FRONT VIEW

BACK VIEW

A : FOR ENCLOSURE MOUNTING

TOP VIEW

SIDE VIEW

ORDERING INFORMATION

CRM — A — B — C — D

A) Model No.
1) 313-I

B) Differential Pressure Range & Resolution
select from the list

C) Communication Port
1) None
2) RS-485 serial port

D) Communication Software
1) None
2) 21 CFR Part II compliance software SCADA (Available if RS-485 serial port is ordered)
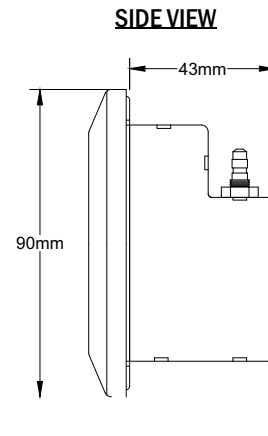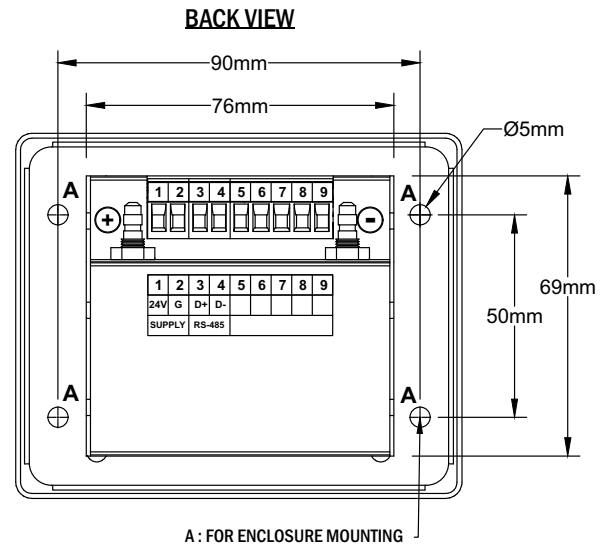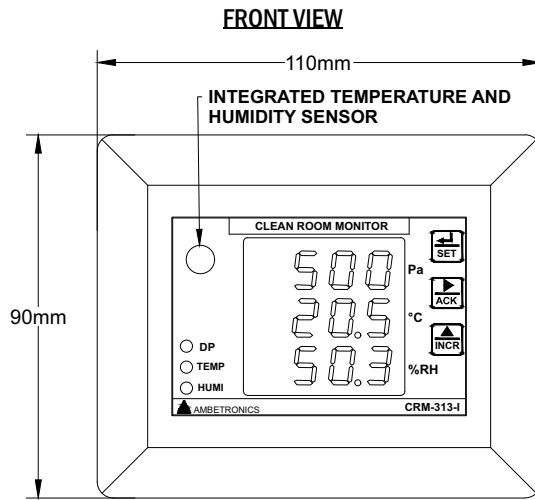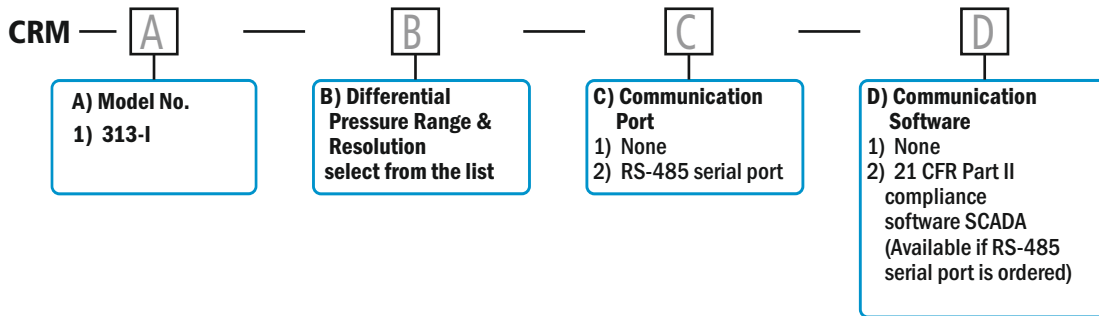
* Before placing order; Refer the above ordering information or Contact below address for assistance.

Specifications subject to change without any prior notice