

CRM-313-R

Clean Room Monitor for Differential Pressure, Temperature & Humidity Indication - Remote Sensor



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

Front View



Features

- 7 Segments L.E.D. display Indication for Temperature, Humidity & Differential Pressure at a time
- Remote Temperature and Humidity sensor connection facility
- Independent Programmable Alarm for Temperature, Humidity & 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 : Remote, sensor with cable length less than 10 meter available
- 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 60.0°C
- Humidity : 0% to 100% RH,
- Display resolution : 0.1 for Temperature and RH

Differential Pressure : Range & Resolution as per below

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 : $\pm 0.5^\circ\text{C}$
- Humidity : $\pm 2\% \text{ RH}$
- Differential Pressure : $\pm 1\% \text{ of F. S.}$

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 slave 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

Your Partner for Clean Room Monitoring

Environmental

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

Electrical

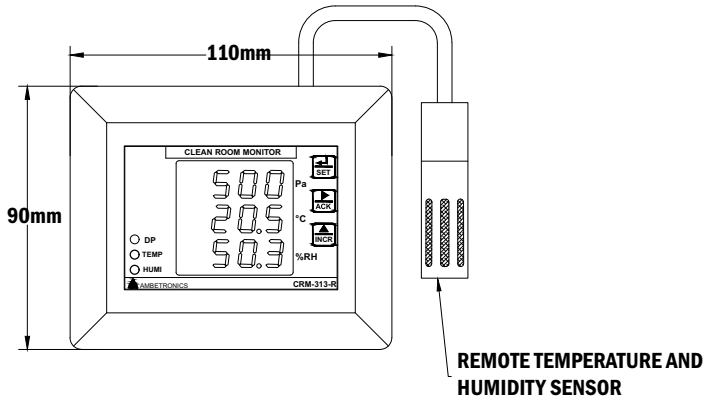
Supply voltage : 24VDC ±10%
 Power consumption : Less than 1.2 watt at 24VDC

Dimensions

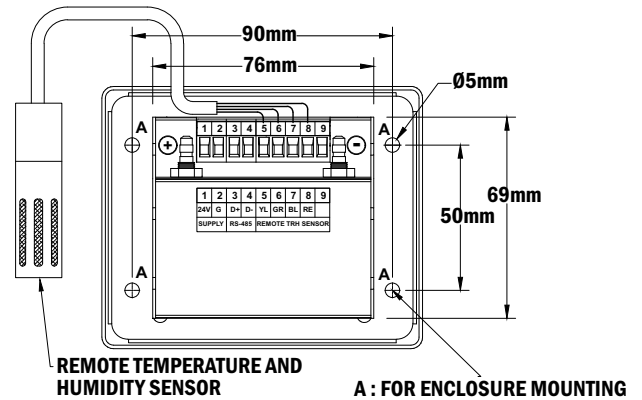
Flush mounting plate : SS-304
 Front plate size : 90 mm(H) x 110 mm(W)
 Back enclosure : MS with powder coated
 Over all Dimension : 90 mm(H) x 110 mm(W) x 43 mm(D)
 Mounting : Modular wall mounting with
 Stainless Steel Front

DIMENSIONAL DETAILS

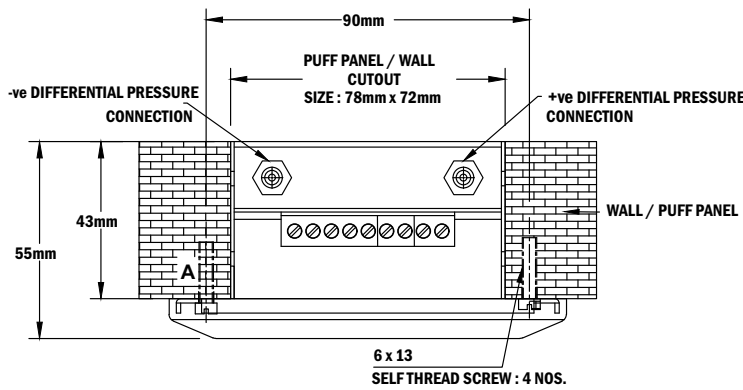
FRONT VIEW



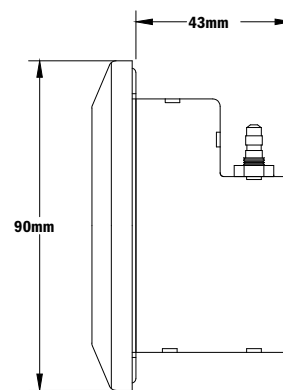
BACK VIEW



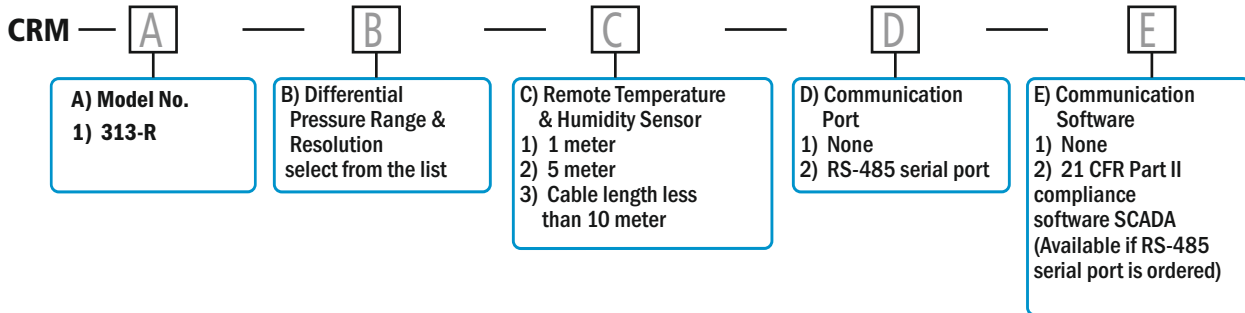
TOP VIEW



SIDE VIEW



ORDERING INFORMATION



* Before placing order; Refer the above ordering information or Contact below address for assistance.

Manufactured by :



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