

Clean Room Monitor

7"LCD



CRM1

7" TFT Display

Date & Time Display

Capacitive Touch

Remote Configurations

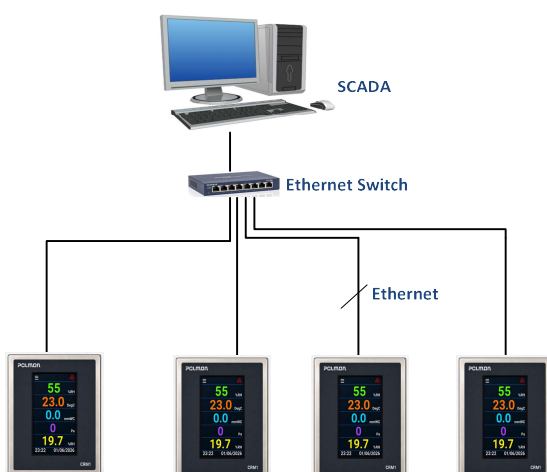
5 Analog Inputs

Features

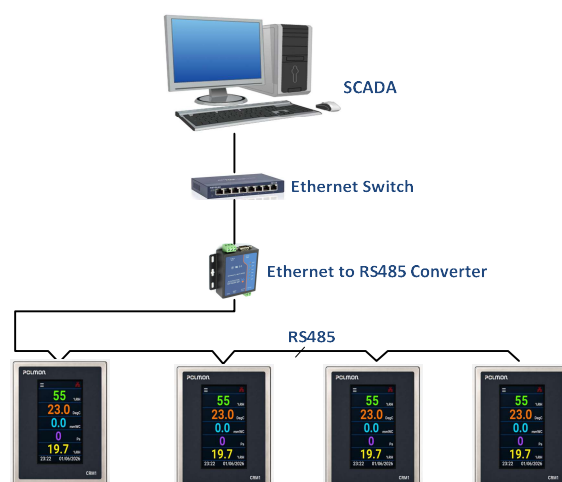
- 7" TFT 800x480 Color LCD
- BACnet/IP/ MODBUS TCP/IP/ MODBUS RTU
- Inbuilt memory for Backfilling data and alarm events
- Wide range of Input Options for Remote Tx interface / Inbuilt Sensors / Extended Sensor (up to 10 mtr)
- Programmable Set points for RH, Temp & DP
- User Selectable Screens (1/2/3/4/5 Parameters with or without Clock)
- Time Synchronization with NTP Server
- Programmable Set points for Inbuilt RH, Temp & DP or for all 5 analog inputs
- (High & Low) with Visual and Audio Annunciation
- User configurable (enable/disable) Inbuilt Buzzer to provide audible Process value violation
- Option for Buzzer Acknowledgement and Snoozing
- Relay O/P (1 C NO)
- AHU ON/OFF, Trip Status
- Dual door feedback
- Password Protected calibration & programming modes
- Safe area applications with SS Faceplate, flush mount (Brick Wall / Modular Wall) and On Wall Mount for Clean Room Application
- Clean Room compatible Concealed Enclosure Applications
- Environmental Monitoring for Clean Rooms with Synchronized Clock

Network Architecture

BACnet I/P / MODBUS TCP/IP



MODBUS RTU



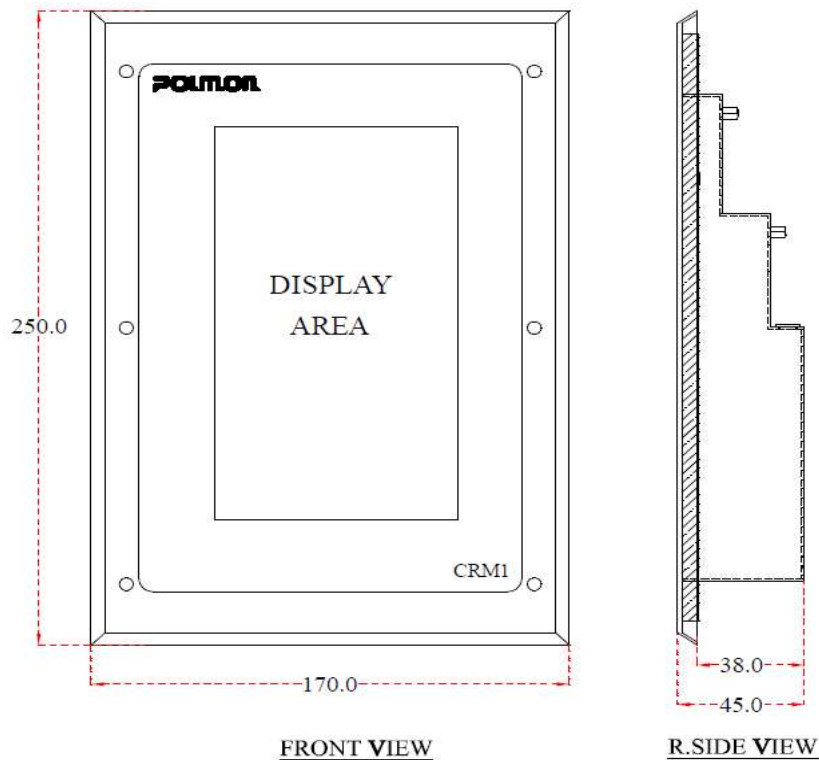
Specifications		
Technical		
	Inbuilt Sensor	External Sensor
Model No	CRM1-R (Non-Flame Proof)	
No. of channels	1/2/3/4/5 with or without Clock (for Hrs & Min 24hrs mode)	
Display	7" TFT Color LCD Display+Touch Viewing Display Size:154.1x85.9mm	
Display Screens	Any Combination of Inbuilt sensor & Analog Inputs,Time & Date	
Input type	DP: Inbuilt	AI 1- DP: Analog Input (4-20mA/0-10V)
	RH: Inbuilt / Extended sensor	AI 2 - RH: Analog Input (4-20mA/0-10V)
	Temp: Inbuilt / Extended sensor	AI 3 -Temp: Analog Input (4-20mA/0-10V)
		AI 4 - Analog Input (4-20mA/0-10V)
		AI 5 - Analog Input (4-20mA/0-10V)
Measurement Range	DP: (±125, ±500, ±1000)Pa(±12.5, ±50.0, ±100.0)mmWC	Programmable
	RH: 0 to 100%	
	Temp: 5.0 to 60.0°C	
Input Accuracy	DP:Range ±125 Pa/ ± 12.5mmWC: ±1.25% of Reading ± 2 count Range ±500 Pa/ ±50.0mmWC: ±1.5% of Reading ± 3 count Range ±1000 Pa/ ± 100.0mmWC: ±1.5% of Reading ± 3 count	0.15% of FSR ±1 count
	RH : ±2% for the range 10 to 90% and ±3% for remaining	
	Temp: ±0.3°C for the range 5.0 to 60.0°C and ±0.4°C for Remaining	
Resolution	DP : 1 Pascal / 0.1mmWC	Programmable
	RH : 1%	
	Temp : 0.1°C	
Response time	DP : 1 second RH & Temp : 8 second	1 sec
Clock Accuracy	± 1 seconds with respect to NTP Server time	
	± 2 Minutes/Year (Stand Alone mode)	
Time Synchronization	SNTP	
Digital Outputs	1 (1C, NO)	
Communication	Ethernet / RS485	
Comm. Protocol	BACnet IP / MODBUS TCP/IP / MODBUS RTU	
Buzzer	Piezo Electric	
Keypad	Touch for LCD	
Calibration	Software	
Power Supply		
Input Supply	18-36Volt AC/DC, 12Watt	
Physical		
	CRM-R (Non Flame Proof)	
Enclosure	SS 304 Face Plate with Flush Mount MS Back Box	
Dimensions (L X W X D)	170x230x45mm	
Mounting Options	Brick Wall, Modular Wall and On Wall (Order Optional Accessories)	
Terminals	2.5 Sq.mm Screw Terminal	
Environmental		
Operating Temperature	5-50°C	
Humidity	10-95%RH, Non-Condensing	

Ordering Information															
CRM1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Model No.	Enclosure Type	AI 1 / RH Input	AI 2 / Temp Input	AI 3 / DP Input	AI 4	AI 5	Clock	DP Range	Digital Inputs	Display type	Inbuilt Memory	Communication	Analog O/P	Power Supply	Future Use
CRM1	R- NFLP	0 - None	0 - None	0 - None	0 - None	0 - None	0 - None	0 - None	0 - None	1 - 7" TFT	0 - None	0 - None	0 - None	1 - 20-30V AC/DC	
	F- FLP	1 - Analog Input #	1 - Analog Input #	1 - Analog Input #	1 - Analog Input #	1 - Analog Input #	1 - Time HH:MM	1 - ±1000 Pa	1 - AHU ON/OFF, Trip (24V DI-2 No's)		1 - Yes	1 - BACnet IP	1 - 4-20mA (1No's)	2 - POE (20-65V)#	
		2 - Remote comm. Input	2 - Remote comm. Input	2 - Remote comm. Input	2 - Remote comm. Input	2 - Remote comm. Input	2 - Time & Date HH:MM DD.MM.YYYY	2 - ±125 Pa	2 - Dual door Feedback (24V DI-2 No's)			2 - MODBUS TCP/IP			
		3 - Integral Sensor front	3 - Integral Sensor front	3 - Integral Sensor front				3 - ±100.0 mmWC	3 - AHU & Dual door feedback (24V DI-4 NO's)			3 - MODBUS RTU#			
								4 - ±12.5 mmWC	4 - DI Inputs (4No's)						

Note:

- Specify the display Units sequence for AI 1 to AI 5.
- # Specify Analog input range for 4-20mA/ 0-10VDC, Specify Analog Input Type and Units for AI 4, AI 5.
- #For Power Supply-2(POE), Communication-4 (MODBUS RTU) is not possible
- #New Variants to be confirmed from R&D.

Non Flame Proof



Mounting Drawing

