IRM/C

INTEGRATED ROOM MONITOR / CONTROLLER

PRODUCT OVERVIEW

The **PM (Pressure Monitor)** is a robust and flexible pressure monitoring / controlling device that can monitor and alarm up to **three (or more) pressure relationships**.

The Pressure Monitor (PM) can be ordered as a touch monitor only solution (**IRM-PM**) or as a room level controller (**IRC-PM**) that can support simple to complex room controls including volumetric offset, variable volume, and direct pressure controls for small to large critical environments using up to three supply air valves and up to three general exhaust valves.
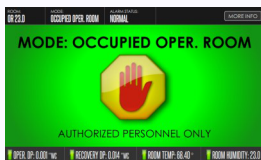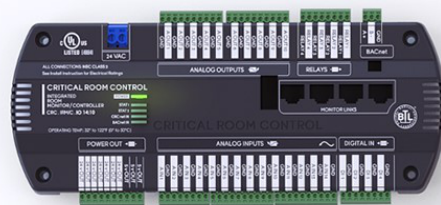
Each Pressure Monitor (PM) comes with one I/O Board and one 7" Touch Monitor **with the option to add up to three additional touch monitors.**

Product Features:

- Clear / unambiguous display of room pressure status on up to 4 different touch monitors.
- Monitor and control up to three pressure relationships.
- Display and alarm up to 28 points - swipe left to view more point data.
- Volumetric offset control for critical spaces with rapid speed of response requirements.
- Direct pressure control.
- High speed, closed loop valve control.
- Place touch monitors up to 200' from I/O board.
- No laptop or special programming tool required.
- Setup wizard & quick configuration menus.
- Archive, store, and load controller programming and commissioning data.
- Clone, load, and archive monitor data.
- Multiple levels of password protection.
- Fast, easy setup, balancing and commissioning.
- BACnet BTL—Open communication protocol.
- I/O diagnostic tools.
- Visual and audible alarms

Applications:

- High Speed Fume Hood Labs
- Volumetric Tracking Pairs
- Wet Laboratories
- Vivarium / Animal Rooms
- Surgery Suites / Operating Rooms
- Pharmacy (USP-797 & 800)
- Airborne Infectious Isolation Rooms
- Procedure Rooms
- Patient Rooms
- Clean Rooms
- Cascaded Labs

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EQUIPMENT

Included:

* 1 - I/O 14:10 Board
* 1 - 7" Touch Monitor (programmed as a Pressure Monitor)
* 1 - 7" Monitor mounting bracket
* 1 - 25' Cat 6 cable

Optional:

* Up to 3 additional touch monitors (w/ mounting bracket and cat6 cable)
* Up to 3 pressure transducers (with 2 pressure pickup plates each)

SPECIFICATIONS (I/O 14:10 Board)

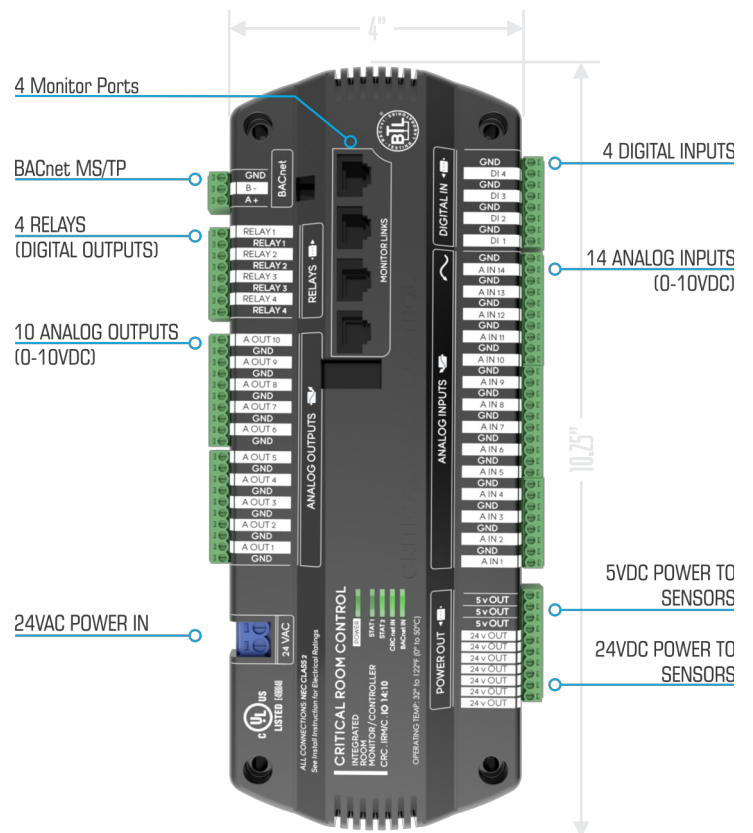|	
Dimensions - Controller:	10.25"W x 4"H x 1.25"D
Input Power:	24 VAC +/- 10%, 50/60 Hz, maximum 50 VA, Class 2
Onboard Power:	5 - 24 VDC (200mA total max.), 3 - 5 VDC (100mA total max.)
Operating Temperature:	32° to 122°F (0° to 50°C)
Storage Temperature:	-40° to 70°C (-40° to 158°)
Humidity	5 to 95% RH (non-condensing)
Analog Inputs:	14 (0-10v, 2-10v, 1-5v)
Analog Outputs:	10 (0-10v, 2-10v, 1-5v)
Digital Inputs:	4
Relays (Digital Outputs):	4 Normally closed (2A @ 30VDC)
Communication:	BACnet® MS/TP (BTL – listed / tested)
Connectors:	Removable screw type (14 - 26ga wire)
Listing:	UL 916, C-UL, BTL
Manufactured Under:	ISO 13485:2003 Medical FDA REGISTERED MANUFACTURER

4 Monitor Ports
BACnet MS/TP
4 RELAYS (DIGITAL OUTPUTS)
10 ANALOG OUTPUTS (0-10VDC)
24VAC POWER IN
4 DIGITAL INPUTS
14 ANALOG INPUTS (0-10VDC)
5VDC POWER TO SENSORS
24VDC POWER TO SENSORS

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SPECIFICATIONS (7" TOUCH MONITOR)

Dimensions: 9 x 5.375 x 1.5 in.

Display Type: Resistive touch 7in. (109 mm) TFT/IPS

Resolution: WVGA RGB 480px x 800px

Brightness: Sunlight readable (600 cd/m2)

Input Power: Supplied by IRM/C I/O via CAT6 cable, (200' max per monitor or 500' max combined cabling distance if using multiple monitors)

Environmental (operating): 50°F to 95°F (10°C to 35°C), 0% to 95%

Mounting: Mounting bracket (included) to a 3-gang electrical box (not included)

Connection to I/O Board: Up to 200' Shielded Cat 6 cable 22ga (25' Cat 6 included)

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OPTIONS | EQUIPMENT

ROOM CONTROL (SELECT ONE):

☐ **IRM** ROOM MONITOR ONLY   ☐ **IRC** ROOM CONTROL

PRIMARY PRODUCT:

☒ **PM** PRESSURE MONITOR

(1) I/O Board
(1) 7" Touch Monitor
(1) Monitor mounting plate
(1) 25' Cat 6 Cable

PRESSURE RELATIONSHIPS (SELECT ONE):

☐ **0**   ☐ **1**   ☐ **2**   ☐ **3**

Per pressure relationship:
(1) Pressure transducer
(2) Pressure pickup plates

ADDITIONAL TOUCH MONITORS (SELECT UP TO THREE):

— **PM** PRESSURE MONITOR

— **PMV** PRESSURE MultVIEW

— **MV** MultiVIEW

Per touch screen:
(1) 7" Touch Monitor
(1) Monitor mounting plate
(1) 25' Cat 6 Cable

NOMENCLATURE:

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