

PRODUCT OVERVIEW

The **IRC-C (Controller Only)** is a robust room level controller designed to support simple to complex room controls including volumetric offset, variable volume, and direct pressure controls for small to large critical environments.

The IRC-C (Controller Only) can manage diverse configurations, including labs with high-speed VAV fume hoods.

As a native BACnet MS/TP controller, the IRC-C (Controller Only) provides seamless connection to any BMS/BAS. No gateways nor protocol converters required.

The optional IRC-ST (Setup Tool) is a touch screen commissioning tool that allows for fast and easy setup of the IRC-C.

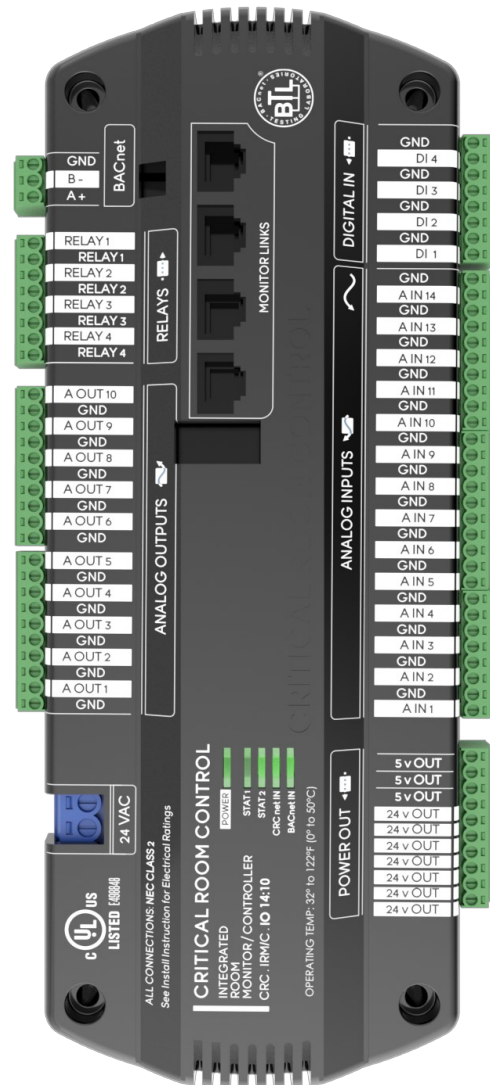
Product Features:

- Volumetric offset control for critical spaces with rapid speed of response requirements
- Direct pressure control
- High speed, closed loop, valve control
- Fast, easy setup and commissioning via commissioning touch screen (sold separately)
- BACnet® MS/TP (BTL – listed / tested)

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

I/O 14:10 Board:



EQUIPMENT

Included:

- 1 - I/O 14:10 Board

Optional:

- Up to 3 pressure transducers (with 2 pressure pickup plates each)
- 7" Setup Tool (7" Touch Monitor)

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)

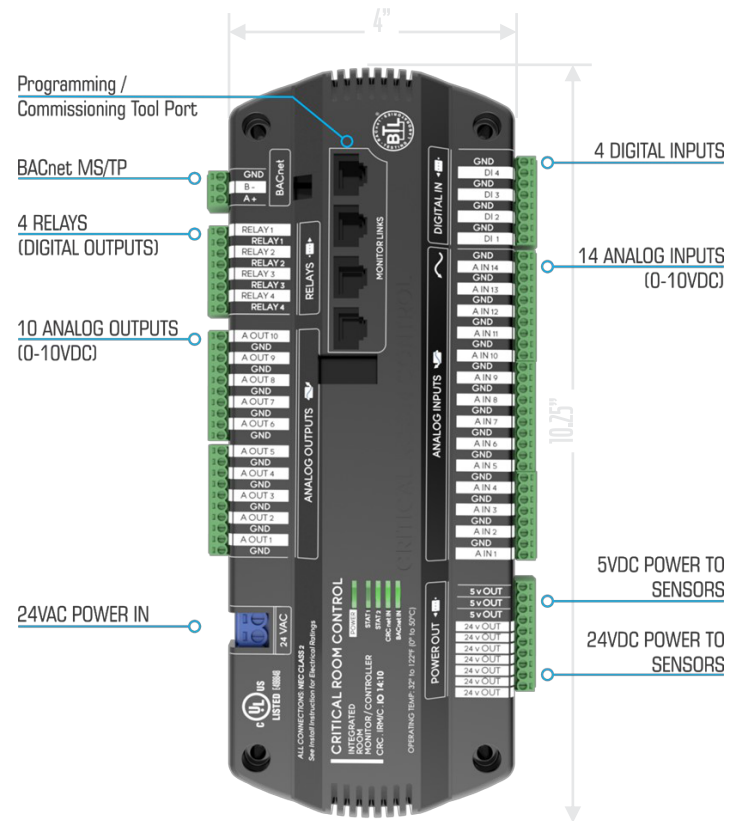
Communication: BACnet MS/TP (RS485) (BTL tested / listed)

Connectors: Removable screw type (14 - 26ga wire)

Listing: UL 916, C-UL, BTL

Manufactured Under: ISO 13485:2003 Medical

FDA REGISTERED MANUFACTURER



OPTIONS

EQUIPMENT

ROOM CONTROL:

IRC
ROOM CONTROL

PRIMARY PRODUCT:

 **C**
CONTROLLER ONLY
(No Monitor)

(1) I/O Board

PRESSURE RELATIONSHIPS (SELECT ONE):

0 1 2 3

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

CONTROL OPTIONS (SELECT ONE):

D DIRECT PRESSURE **V** VOLUMETRIC OFFSET

TOUCH MONITOR:

 **ST**
SETUP
TOOL

(1) 7" Touch Monitor
(1) Monitor mounting plate
(1) 25' Cat 6 Cable

NOMENCLATURE:

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