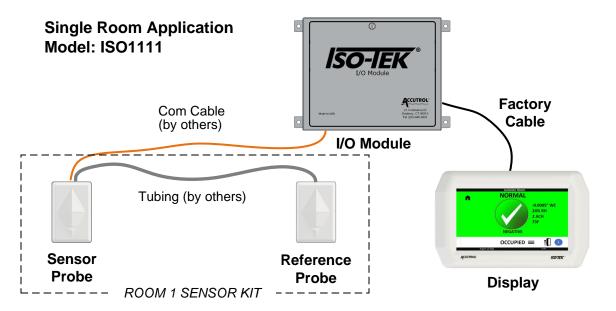


SYSTEM DIAGRAM



NOTES:

- 1. Reference Sheet 3 for tubing details.
- 2. Reference Sheet 4 for wiring details.

SPECIFICATIONS

Pressure Range +/- 0.100"wc (+/- 25Pa)

0.00000335"wc (0.00083Pa) Pressure Measurement Resolution

Zero Pressure Offset Accuracy Typical: +/- 0.00016"wc (+/- 0.04Pa) Max: +/- 0.0004"wc (+/- 0.1Pa)

Span Accuracy Typical: +/- 0.75% of reading

Max: +/- 1.5% of reading

Thermal Effects -4 to 185 deg F (-20 to 85 deg C) Offset: Max +/- 0.0004"wc (+/- 0.1Pa)

> Span: Typical +/- 0.2% of reading per 18 deg F (10 deg C) Max +/- 0.5% of reading per 18 deg F (10 deg C)

+/- 3% of reading Note: Includes linearity, hysteresis, and repeatability Static Error Band

+/- 0.00008"wc (+/- 0.02Pa) per year max Long Term Stability

Green LED to indicate status Status Indicators

Connections 4-pos. screw terminal

Note: connect to IO Module using Windy City Wire # 042003 or equivalent

-4 to 176 deg F (-20 to 80 deg C) Operating Temp Range -40 to 185 deg F (-40 to 85 deg C) Storage Temp Range

Humidity 0 to 95% noncondensing

DISPLAY (Local HMI)

7" LCD-TFT Resistive touch display with LED backlight Display Type

RGB 65K colors Color

6.49" x 3.937" (164.9mm x 100mm) Active Area

800 x 480 pixel Resolution

Speaker audible notifications, 550~18KHz, 83dBA SPL @ 1W/0.5M

RJ-45 connector

Note: connect to IO Module using factory-provided cable only

Configuration Port USB 2.0, Isolated, Type C Conn., connect PC with Iso-Tek Insight

Operating Temp Range -4 to 150 deg F (-20 to 65 deg C) Storage Temp Range -40 to 185 deg F (-40 to 85 deg C)

Humidity 10 to 90% noncondensing

IO MODULE

System Input Power 24VAC +20/-10%, 22VA, 50-60Hz or 24 VDC +/- 10%, 10W

Max Power requirements for fully loaded system: 15VA or 9 Watts

Relay Outputs 2 Independent SPST Relay Contacts (Software Configurable)

Contact Rating; 2A @ 30VDC, 0.5A @ 60VDC, 0.3A @ 125VAC

Analog Outputs 2 Analog Outputs for Room Pressure (Software Configurable) 0-5v, 1-5v, 0-10v, 2-10v, 0-20mA or 4-20mA

capable of driving 1 K-ohm load

Dry Contact Input for Primary Room Door Switch (software configurable)

Accutrol Sensor Port 5-pos. pluggable screw terminal

Note: connect to Pressure Sensor Network using Windy City Wire # 042003 only

Accutrol Display Port RJ-45 connector

Note: Connect to Display Module using factory-provided cable only

BACnet MS/TP (Optional) EIA 485 2-wire, BACnet MS/TP, Galvanically Isolated

1/8 unit load transceiver impedance

Full Master Node State Machine

Data Rates 9600, 19200, 38400, 76800 and 115200

MAC address is software configurable

BACnet IP (Optional)

LED Indicators for Power, Pressure Sensor, Display, BACnet, & Bluetooth Status Indicators

I/O Terminal Blocks Removable Vertical Plugs, Wire Size Range 12-30 AWG

Bluetooth (Optional) Bluetooth Version 4.2 or later, connect to PC with Iso-Tek Insight

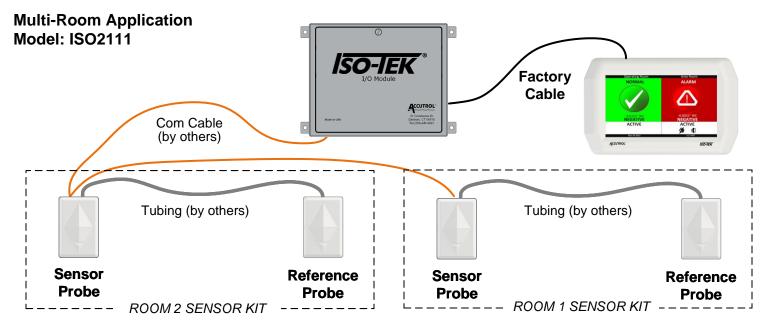
Operating Temp Range Storage Temp Range

-20 to 176 deg F (-29 to 80 deg C) -40 to 185 deg F (-40 to 85 deg C)

0 to 95% noncondensing

Humidity COMPLIANCE

RoHS, UL94-V0



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Accutrol Representative:

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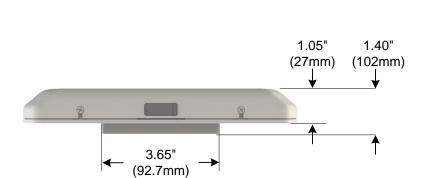
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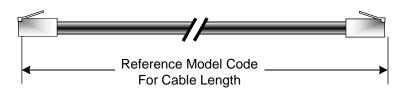
DIMENSIONS

Display Module



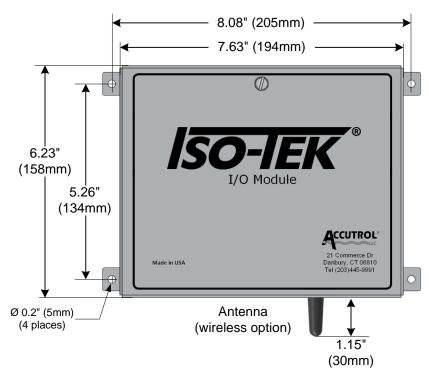


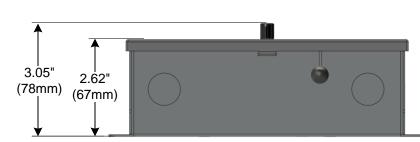
Display Cable



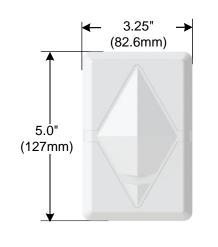
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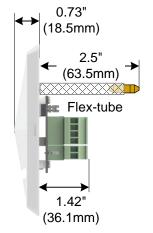
IO Module

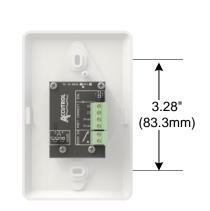




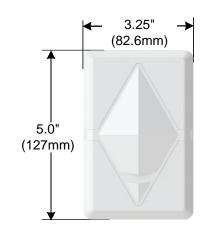
Sensor Probe

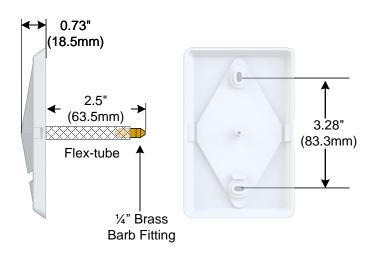






Reference Probe





Materials

All Materials are RoHS Compliant

IO Module Enclosure: 16 Gauge Aluminum Alloy 5052-H32 Display Module Bezel & Mounting Plate: ABS Plastic UL94-V0 Sensor Probe and Reference Probe: ABS Plastic UL94-V0

Display Cable: Plenum-rated shielded cable



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INSTALLATION

Display Module

The Display Module is designed to be installed onto a standard double or triple-gang electrical box (e-box) provided by others. The e-box is typically located at eye-level at the entrance of the room being monitored.

Step 1: Install the e-box level & flush with finished wall surface.

Step 2: Insert Display Cable from e-box through the hole located in the Display Mounting Plate.

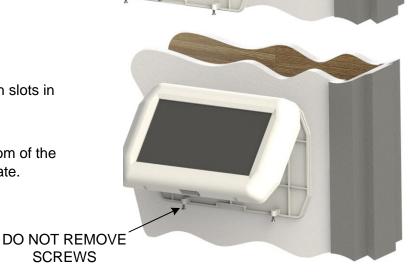
Step 3: Position the Display Mounting Plate with the arrow UP and secure to e-box using the (4) #6-32 x 1" long screws provided.

<u>.</u>

CAUTION: Do not overtighten mounting screws. Overtightening may deform mounting plate.

Step 4: Align the notches in the top of Display with slots in the top of the Mounting Plate.

Step 5: Tighten the (2) screws located at the bottom of the Display to secure the Bezel to the Backplate.



IO Module

The IO Module enclosure includes 4 flanges with 0.2" dia holes provided for securing the IO Module to a wall or panel plate. The IO Module is typically located in the vicinity of the room above the ceiling or inside a control panel that is within the range of the display cable provided.

Secure IO Module to mounting surface using either (4) #8 or #10 screws (Provided by others).

For sheetrock installation, use the appropriate wall anchors (provided by others).

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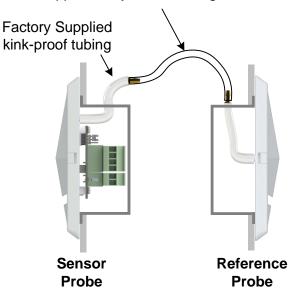
Sensor Probe & Reference Probe

The Sensor and Reference Probes are designed to be installed onto a single-gang electrical box (e-box). The sensor probe shall be located inside of the pressurized space and the reference probe shall be installed outside the pressurized space in a location designated as the reference pressure zone for the room being monitored. Both probes shall be located in areas that will not be influenced by air currents from supply diffusers, fans, personnel, etc..

- Step 1: Install the e-box level & flush with finished wall surface.
- **Step 2:** Run field tubing (by others) from Sensor Probe e-box to Reference Probe e-box.
- **Step 3:** Each probe is provided with a short length of kink-proof tubing with a ¼" barb fitting. Connect the field tubing to the barb fitting on the Sensor Probe and Reference Probe.



Field tubing: 0.25" (6mm) O.D., .040" (1mm) wall, NFPA 90 flame retardant polyethylene control tubing, such as Chevron Plexco or equivalent approved by local building codes.



- **Step 4:** Remove airflow deflector plates on both probes to reveal mounting holes by pulling outwards on the side tabs.
- **Step 5:** Position the Probe with the arrow UP and secure to e-box using the (2) #6-32 x 1" long screws with attached gasket provided.

CAUTION: Do not overtighten mounting screws. Overtightening may deform mounting plate.

Step 6: After installation is complete, reattach the airflow deflector plates.



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21 Commerce Dr
Danbury, CT 06810
Tel: 203-445-9991
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