



# ROOM PICK UP PORT SERIES

Installation & Operation Instructions

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## GENERAL INFORMATION

The ACI Room and Stainless Pickup Ports are designed to be used in conjunction with any low differential pressure transmitter (see ACI DLP or MLP2 Series) to provide an aesthetically pleasing building static reference point (pressure). They are offered in two different room enclosure options. When used in conjunction with a low differential pressure transmitter, the pickup ports provide excellent accuracy and reliability.

### For optimal readings, follow these tips:

- Make sure that the tubing is free of dirt, duct and condensation and that you keep the tubing run as short as possible in order to provide best response time.
- Avoid locations next to supply air diffusers or return air grill.
- For building static pressure, an ideal inside location will be on first floor in common hallway area.
- To keep high pressure(positive) in the building or clean room, the high port should be installed in the building or clean room and the low port should be mounted outside or hallway.
- To keep low pressure(negative) in a lab, the high port should be installed in the hallway and the low port should be mounted inside the lab.

## MOUNTING INSTRUCTIONS

### Room Series

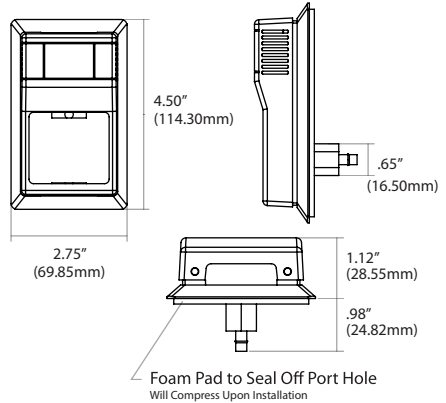
Separate the cover from the base. Attach the base directly to the wall or to a standard 2" x 4" junction box using the (2) #6-32 x 1" screws provided.

### Plate Series

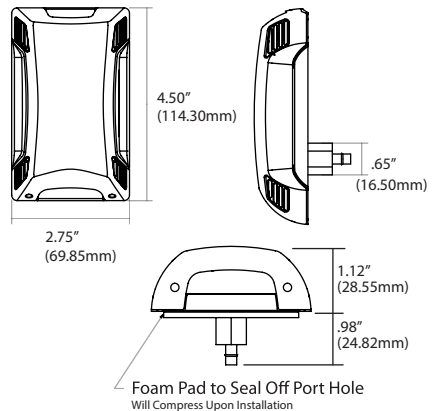
The ACI Stainless Plate temperature sensors are mounted on the back of a 1 Gang stainless steel plate. The foam pad will insulate the sensor from any drafts in the wall. There are (2) 6-32 x 3/4" machine screws provided for junction box mounting. Remove plastic film off stainless steel cover.

## FIGURE 1: ROOM DIMENSIONS

### Pickup Port Room [R]



### Pickup Port Room [R2]



### Stainless Plate

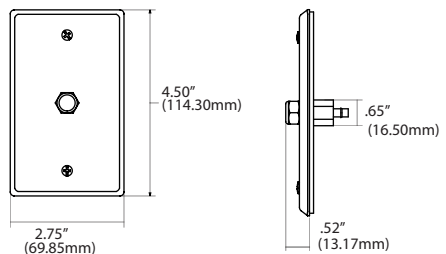


**FIGURE 2: PICKUP PORT ROOM MOUNTING**

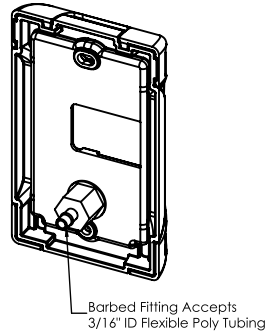
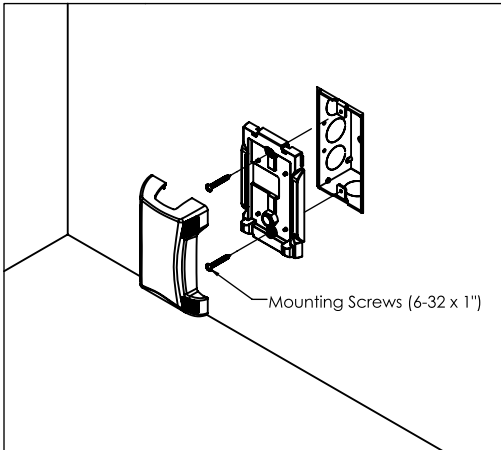
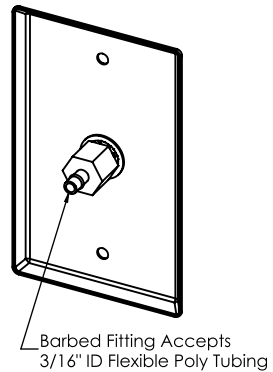
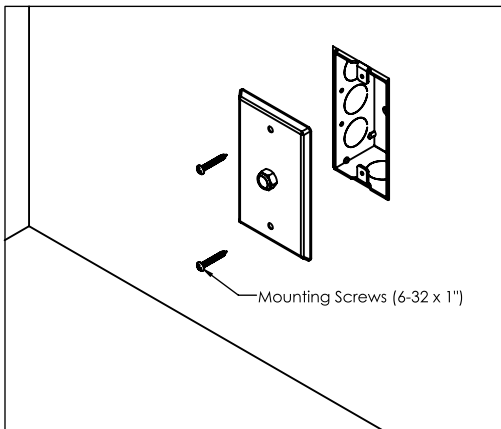


**FIGURE 3: STEEL PLATE MOUNTING**



The sensor should be mounted in an area where air circulation is well mixed and not blocked by obstructions.

Attach the 3/16" I.D. tubing to the barb fitting.

Room units - After installation, attach the cover to the base by snapping the top of the cover on first and then the bottom. Tighten the cover down, using the (2) 1/16" Allen screws located in the bottom of the housing. A 1/16" Hex driver is needed to secure the cover to the base.

PRODUCT SPECIFICATIONS - ROOM PICK UP PORTS

|                                           |                                                                                                                   |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Tubing Connections:                       | Barbed fitting accepts 3/16" ID flexible Poly tubing                                                              |
| Maximum Operating Pressure:               | Filter: 150 psi (10.3 bar)<br>Medical Tubing (A/10' Tube, A/20' Tube, A/100' Tube): 65 psi maximum at 73°F (23°C) |
| Operating Temperature Range:              | 35° to 140°F (2° to 60°C)                                                                                         |
| Storage Temperature Range:                | -40° to 140°F (-40° to 60°C)                                                                                      |
| Enclosure Material   Flammability Rating: | ABS   UL-94 HB                                                                                                    |
| Enclosure Color:                          | A/R2-PUP: White<br>A/R-PUP: Beige                                                                                 |
| Foam Material   Flammability Rating:      | Cross-Linked Polyethylene   FMUSS-302                                                                             |
| Filter Material:                          | Nickel Plated Brass                                                                                               |

PRODUCT SPECIFICATIONS - STAINLESS WALL PLATES

|                                      |                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Tubing Connections:                  | Barbed fitting accepts 3/16" ID flexible Poly tubing                                                              |
| Maximum Operating Pressure:          | Filter: 150 psi (10.3 bar)<br>Medical Tubing (A/10' Tube, A/20' Tube, A/100' Tube): 65 psi maximum at 73°F (23°C) |
| Operating Temperature Range:         | -40° to 150°F (-40° to 66°C)                                                                                      |
| Storage Temperature Range:           | -40° to 160°F (-40° to 71°C)                                                                                      |
| Wall Plate Material:                 | 302 Series Stainless Steel                                                                                        |
| Wall Plate Color   Finish:           | Silver (Metallic)   Brushed Stainless Steel                                                                       |
| Foam Material   Flammability Rating: | Cross-Linked Polyethylene   FMUSS-302                                                                             |
| Filter Material:                     | Nickel Plated Brass                                                                                               |

WARRANTY

The ACIPick Up Port Series temperature sensors are covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's website: [www.workaci.com](http://www.workaci.com).

W.E.E.E. DIRECTIVE

At the end of their useful life the packaging and product should be disposed of via a suitable recycling centre. Do not dispose of with household waste. Do not burn.