A-464 Magnehelic® Differential Pressure Gage Mounting Kit

Installation and Operating Instructions

A-464 shown with A-465 Space Sensor (sold separately)

Front View showing mounted gage.

Back View showing mounting and tubing connections.

The A-464 mounting kit provides a flush mounting solution for Magnehelic® Gage installations in applications such as clean rooms and mechanical equipment rooms. The A-464 can also be used as an alternative means to flush mount Magnehelic® Gages on control panel enclosures.

Utilizing the A-464 for Magnehelic® Gages installations reduces installation time while also producing an aesthetically pleasing result.

Parts List
A1 – Gage mounting plate
A2 – Wall anchor screws
A3 – Plastic wall anchors
A5 – Plastic tubing

INSTALLATION
Wall Mounting

1. Select a suitable location complying with the gage manufacturer's recommendations. The most common location for room pressure measurement is on the wall next to the door entering the room at the 5 ft. level. The wall depth must be at least 2-1/2 in. and clear of any obstructions.

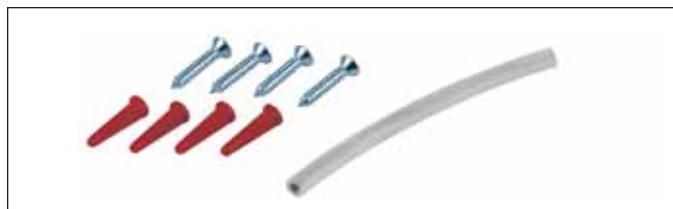Note: Always check for proper clearance before cutting any holes.

2. Using the mounting plate (A1) as a guide, mark the wall for the gage opening, local room reference fitting and mounting anchors.

3. Cut out the opening and drill the anchor holes with a 3/16 in. drill and install the wall anchors (A3).

4. Install the gage on the mounting plate using the hardware provided with the gage. Make sure to square the gage with the mounting plate ensuring the jack screws contact the three mounting ears.

5. Push one of the plastic tubing pieces (A5) onto the reference fitting and onto the appropriate fitting on the back side of the gage.

Note: For most applications this would be the low port. Cut the tube to the length required. Tubing should not kink after installation.

6. Install the remaining piece of plastic tubing onto the unconnected port on the back side of the gage. Connect the other end of the tubing to the room pressure sensor located in the room being measured.

Note: The accessory space pressure sensor kit A-465 provides an ideal solution for remote room sensing.

7. Insert the assembly into the wall taking care to avoid kinking the tubing. Secure the mounting plate to the wall with screws (A2).

8. To calibrate the gage equalize the pressures being sensed (i.e., open the room door and/or shut down the air handler), and zero the gage.

Panel Mounting

Panel mounting is accomplished following most of the steps listed for wall mounting. Some of the differences are listed below:

• Use the appropriate length and type of mounting screws for securing the mounting plate (A1) to the panel.

• If the high and low references are remote from the panel, connect the pressure sensing tubing to the appropriate ports on the gage.

• If clearance behind the gage is a concern, the side ports on the gage may be used. To use the side ports, install the factory supplied plugs on the back ports and install the barbed fittings supplied with the gage on the side ports.

Note: Install the barbed fittings on the side ports after the gage is mounted on the panel.

INSTALLATION DIAGRAM