MODELS

These sensors are for use with manometers, Magnehelic® gages, pressure switches and other controllers to pick up or sense static pressure drop across air filters and cooling coils, blower input and discharge pressures, etc. The angled tips shown have 4˝ insertion depth. Each has four radially drilled .040˝ sensing holes. All except Model A-303 mount in 3/8˝ hole in duct. For portable use, a magnet holds No. A-303 in place. No. A-305 is used where a very low actuation or sensing point is required on a pressure switch or gage or where response time is critical. No. A-307 and A-308 are suitable for use in low velocity systems or where the need for accuracy is less critical.

A-301, Static Pressure Tip, for 1/4˝ metal tubing connection.
A-301-A, Static Pressure Tip, same as A-301 with 6˝ insertion depth.
A-301-B, Static Pressure Tip, same as A-301 with 8˝ insertion depth.
A-301-C, Static Pressure Tip, same as A-301 with 12˝ insertion depth.
A-301-SS, same as A-301 in Stainless Steel.
A-302, Static Pressure Tip, for 3/16˝ and 1/8˝ I.D. plastic or rubber tubing.
A-302-A, Static Pressure Tip, same as A-302 with 6˝ insertion depth.
A-303, Portable Static Pressure Tip, for 3/16˝ I.D. rubber or plastic tubing with 3˝ insertion.
A-305, Static Pressure Tip, low resistance application, furnished with two (2) hex jam nuts and two (2) mounting washers for duct mounting and with 1/8˝ NPT pipe thread for pressure connection.
A-305-SS, same as A-305 in Stainless Steel.
A-306, Outdoor static pressure sensor. Provides average outdoor pressure signal for reference in building pressurization applications. Includes sensor, 50 ft. vinyl tubing, mounting bracket and hardware.
A-307, Static Pressure Fitting, for 1/4˝ metal tubing connection.
A-307-SS, as above in Stainless Steel.
A-308, Static Pressure Fitting, for 3/16˝ and 1/8˝ I.D. plastic or rubber tubing.
A-414, 316 SS Clean Room Pressure Sensor.

MODELS

Instrument valves for permanent installation. They mount in part A-316, A-317, type C manometer connections or Magnehelic® gage and connect to metal tubing or 1/8˝ pipe.

A-310A, 3-Way Vent Valve, plastic, 1/8˝ NPT to 1/4˝ metal tubing. Positions are: (1) Line: Gage connected to pressure source. (2) Off: Both gage and connection to pressure source closed. (3) Vent: Gage vented to atmosphere and connection to pressure source closed. 80 psi rating. Replaces former model A310 (brass).
A-310B, same as A-310A but with 10 psi rating.
A-311, Shut Off Valve, brass, 1/8˝ NPT to 1/8˝ NPT.
A-312, Shut Off Valve, brass, 1/8˝ NPT to 1/4˝ metal tubing.
A-355, Porting Valve, acrylic plastic, 1/8˝ NPT inserts. Used for convenient indication of pressure at two points with a single gage.
A-365, Dual Porting Valve, acrylic plastic, 1/8˝ NPT fittings. For monitoring three pressures, two at a time, with one gage.

Gage Connectors for Manometers. Molded nylon construction, threaded .786 x 27 N.S., with O-ring seal.

A-315, Gage connector, Shut off type, for 3/16˝ rubber tubing.
A-316, Gage connector, bushing, 1/8˝ pipe thread opening.
A-318, Gage connector 1/4˝ pipe thread opening.
A-321, Brass Safety Relief Valve Protects Magnehelic® or Photohelic® Gage against over pressure due to regulator failure etc. Opens at 10 psi. Mounts in tee fitting in sensing line or in unused gage port with addition of A-349 reducer. 1/4˝ male NPT (Use two for D.P. application).
Static Pressure Accessories

Model A-417, Static Pressure Pickup. For use in clean rooms, 100 micron filter picks up static pressure. Stainless steel wall plate fits 2” x 4” electrical box. Sealed with foam gasket, screws included. Barbed brass fitting holds 1/8” to 5/32” I.D. tubing.

Model A-418, Static Pressure Pickup. Room mount with Delta Style plastic enclosure fits 2” x 4” electrical box. Fine mesh screen hides static pressure pickup port. Clean connection to 1/8” to 5/32” I.D. tubing and pressure sensor. Sealed with foam gasket, screws included.

Model A-419, Static Pressure Pickup Ceiling Mount. Plate rests on top of standard 3/4” thick ceiling tile while 100 micron filter faces down through 5/8” hole in tile. Filter is barely noticeable in room being monitored. Screws included for optional mounting to junction box. Barbed brass fitting holds 1/8” to 5/32” I.D. tubing.

Model A-420, Static Pressure Pickup for Roof or Outside Wall Mount. Port especially reduces effects of wind gusts to keep pressure readings stable when plate is parallel to ground. NEMA 4X (IP66) rated structure withstands harsh environmental elements. Structure is 3-5/8” across and 2-1/2” deep. EMT Conduit fitting is 1/2”. Pressure connection is brass barbed fitting for 1/4” tubing.

Model A-421, Static Pressure Tip measures duct static air pressure. Assembly includes 6” probe, silicon rubber hose, and screws. Built-in surge damper ensures stable readings on pressure sensor. Pressure spike reducer can be added to end of tube to further smooth over pressure fluctuations.

The A-465 Space Pressure Sensor Kit provides a clean solution for sensing space pressure. Typical applications include: sensing the pressure in clean rooms, laboratories and building lobbies. The kink resistant tubing provided in the kit is connected to the tubing running to a pressure transducer, Magnehelic® Gage, VAV unit or any other types of pressure sensing devices. The sensor can be mounted on sheetrock walls, single gang electrical boxes or on ceiling tiles. The block free pressure reference opening along with the kink resistant tubing ensure accurate readings at all times.

Advantages and Specifications of the A-465 Kit

- The professional way to sense space pressure.
- Mounting options include: Sheetrock walls, ceiling tiles or single gang electrical boxes.
- Non block reference opening prevents plugging.
- Saves time and money.
- Outside dimensions: 2-3/4 x 4-1/2 x 1/4 inches (6.9 x 11.4 x 0.6 cm).
- Attractive design blends in with building decor.
- Materials: White ABS plastic.

Model A-465

- www.dwyer-inst.co.uk
- www.dwyer-inst.com.au