



# PRESSURE

## AIR PRESSURE SENSORS, SURGE DAMPENERS

### A-300 SERIES, RPS, 21121, SD-01

#### DESCRIPTION

##### Static Pressure Sensors

**A-300 Series** sensors are used with pressure transmitters and pressure switches to sense duct pressures. Two sensors are required to monitor pressure across coils, filters, blowers, etc. **A-301** and **A-302** have four radial sensing holes and a 4" (10.2 cm) insertion depth. The **A-308** should be used only where accuracy is not critical. All mount in a 3/8" hole in the duct. If the interior of the duct is not accessible, an optional **A-345** flange mounting kit may be used.

##### Outdoor Static Pressure Sensor

The **A-306 Outdoor Static Pressure Sensor** provides an outdoor pressure signal for reference in building pressurization applications. The **A-306** includes the sensor, 50' (15.24m) of vinyl tubing, mounting bracket, and hardware.

##### Room Static Pressure Sensors

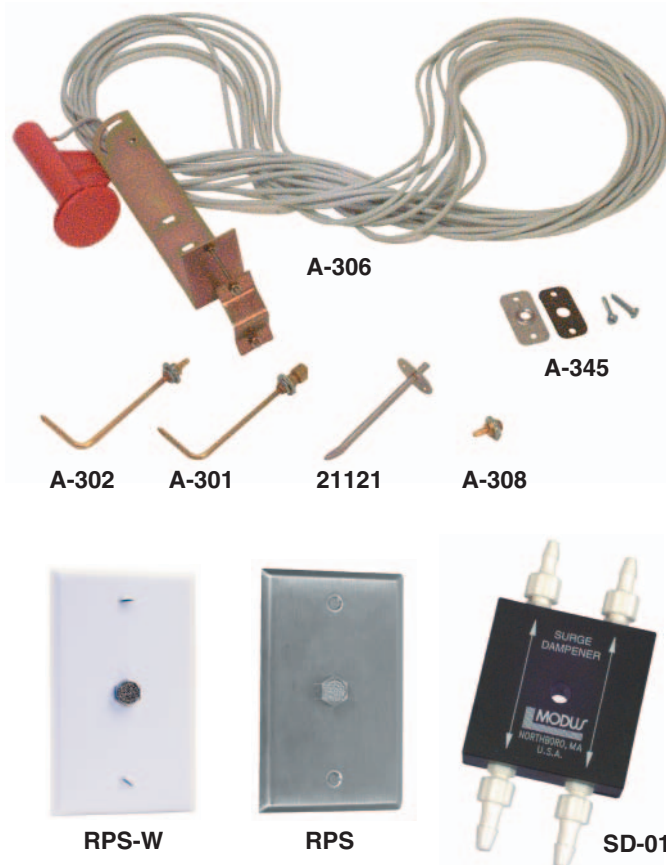
**Model RPS** is a stainless steel room static pressure sensor. It mounts directly to the wall or to a ceiling using a standard electrical box. **Model RPS-W** is the same as the **RPS** except with a white plastic wall plate. **RPS-I** (ivory) is also available.

##### Total Pressure Sensor

**Model 21121** sensor is used primarily for proving air flow in ducts. The opening in the tip of the 4" (10.2 cm) aluminum tube faces upstream and senses impact (total) pressure.

##### Surge Dampener

Surge dampeners absorb rapid pressure fluctuations in order to steady a pressure signal. Each surge dampener has two independent channels – one for the low pressure tubing and one for the high pressure tubing. Surge dampeners are typically used with outdoor pressure sensors, which are subject to wind gusts, isolation rooms, clean rooms, or operating rooms where opening or closing doors creates sudden pressure changes.



#### ORDERING INFORMATION

| <u>MODEL</u> | <u>DUCT STATIC PRESSURE SENSORS</u>   |
|--------------|---|
| A-301        | Static Pressure Tip, 1/4" Compression   |
| A-302        | Static Pressure Tip, 1/4" Barb  |
| A-308        | Static Pressure Fitting, 1/4" Barb  |
| A-345        | Flange Mounting Kit   |
| A-306        | <u>OUTDOOR STATIC PRESSURE SENSOR</u><br>Outdoor Air Static Pressure Kit                |
| 21121        | <u>DUCT TOTAL PRESSURE SENSOR</u><br>4" Aluminum Impact Tube for 3/8" OD Plastic Tubing |
| B-137        | 1/4" Barb Adapter for #21121 (standard pack-100)  |
| RPS          | <u>ROOM STATIC PRESSURE SENSOR</u><br>Stainless Steel Room Pressure Sensor, 1/4" Barb   |
| RPS-W        | White Plastic Room Pressure Sensor, 1/4" Barb   |
| SD-01        | <u>SURGE DAMPENERS</u><br>Surge Dampener  |
| A-605        | <u>FILTER KIT</u><br>Mounting Kit for Air Filter Applications                           |