

Design/Application:

The X-11 is an outdoor air measuring station with a low leakage, high performance, extruded aluminum, airfoil blade damper. The primary sensing elements are aerodynamic head devices which generate a differential (velocity) pressure output signal. The sensor's basis of design is a cylindrical tube within a cylindrical tube which permits the simultaneous measurement of both impact (total) and static pressure. The total and static sensing port design reduces the need for an air straightening device. Station is standard with an electric actuator and PTS-4000 transducer.

Performance:

Velocity: 150 to 2000 fpm (0.76 to 10.2 m/s)

Leakage: 6 cfm/sq. ft. @ 4 in. w.g. (110 cmh/sq. m. @ 1kPa)
 3 cfm/sq. ft. @ 1 in. w.g. (55 cmh/sq. m. @ 0.25kPa)

In Air Stream Temperature Range: -20°F to 180°F (-29°C to 82°C)

Out of Air Stream Temperature Range: 32°F to 120°F (0°C to 49°C)

Transducer Accuracy: +/- 0.80% combined accuracy.
 (with standard PTS-4000 transducer) (+/- 0.40% accuracy optional)

(with optional LP-1000-TZV transducer) +/- 1.00% combined accuracy.
 (+/- 0.50% accuracy optional)

Standard Construction:

Sleeve: 18 ga galvanized steel

Damper Frame: 4.50" (114mm) Deep, .081 (2.06mm) Extruded Aluminum (6063-T5)

Blade: Hollow Airfoil with 0.375" (9.53mm) thick end nose
 (6063-T5) Extruded Aluminum

Extended shaft: 1/2" (12.7mm) diameter

Bearing: Bronze Oilite

Linkage: Concealed in frame

Pivot axles: Zinc with Thrust Bushings

Blade seals: Removable EPDM 250° F (121°C)

Jamb seals: Stainless Steel Compression

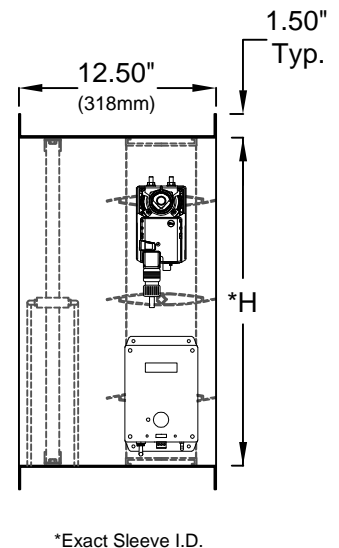
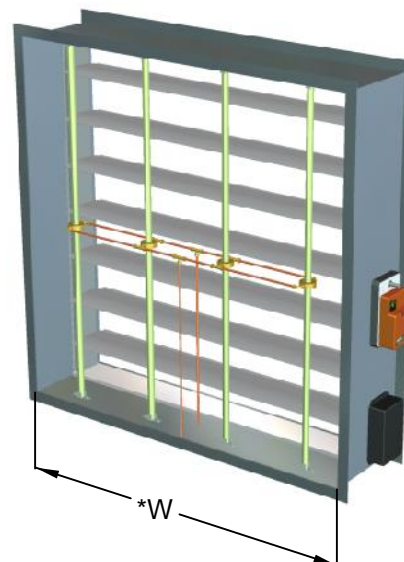
Blade action: Opposed

Flow Sensor: 6063-T5 Anodized Aluminum

Transducer: PTS-4000 (standard)
 (for options and ordering information see page O-5)

Options:

- ☐ Silicone Jamb Seal
- ☐ Insulated Blades
- ☐ Inlet Bell (18 ga galvanized)
- ☐ *Air Straightener: Honeycomb with extended sleeve
 1/2" honeycomb cells, 3" deep, aluminum alloy
 *Only required if turbulent air flow (high disturbance)
 is present (Increases sleeve depth by 4")
- ☐ LP-1000-TZV Transducer
 (for options and ordering information see page O-6)



Shown with optional LP-1000-TZV Transducer
 Minimum Size: 8"w x 8"h (203mm x 203mm)
 Maximum Single Section Damper Size: 60"w x 72"h
 (1524mm x 1829mm)
 Unlimited Air Measuring Station Assemblies (Widths & Heights)

Due to continuing research, United Energetech reserves the right to change specifications without notice.

<input type="checkbox"/> Model X-11 In Duct Air Quality Measuring Station with CD-150 Control Damper		
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