

1-800-GRAINGER (472-4643)

## Pitot Tubes & Airflow Sensors



Measure air flow and air velocity and connect to pressure instruments such as differential pressure gauges, switches, transmitters, and manometers to monitor and control airflow in HVAC systems or specialized applications.

**Pitot tubes** - Stainless steel tubes are graduated to allow the user to quickly reach the needed insertion depth. Compatible with direct-mounting in ducts and many types of mounting hardware. Pocket tubes have 1/8" dia.; standard tubes have 5/16" dia. Straight

tubes allow for easy insertion into ducts. Tubes with compression fitting allow the tube to be fixed into position when inserted into a duct.

**Airflow sensors** - Blade-style metal sensors are secured to square or rectangular ducts with a flange. Blade design provides minimal disruption of air stream for more accurate measurements. Plastic averaging sensors are ideal for sensing differential pressure. Integral flange with gasket for mounting to square and round ducts.

Pitot Type	►CHOOSE: Insertion Length	Maximum Media Temperature	Brand	Item No.
<b>Pitot Tubes</b>				
Pocket Size	6 in, 12 in	—	Dwyer	K4743
Standard	12 in	—	Fluke	3MPA4
Standard	12.625 in, 120 in, 168 in, 216 in, 60.625 in, 96 in, 8.625 in, 18.625 in, 24.625 in, 36.625 in, 48.625 in	1,500 °F	Dwyer	K4742
Straight	18 in	1,500 °F	Dwyer	38RW76
<b>Pitot Tubes with Compression Fittings</b>				
Pocket Size	6 in	—	Dwyer	40XC92
Standard	12.625 in, 24.625 in	1,500 °F	Dwyer	K4744
	►CHOOSE: Insertion Length	Maximum Media Temperature	Brand	Item No.
<b>Blade-Style Metal Averaging Airflow Sensors</b>				
	4 in, 6 in, 8 in, 10 in, 12 in, 14 in, 16 in, 18 in, 20 in, 22 in, 24 in, 26 in, 28 in, 30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in, 48 in	400 °F	Dwyer	K4740
<b>General Purpose Plastic Averaging Airflow Sensors</b>				
	3 1/8 in, 5 3/8 in, 7 3/8 in, 9 3/8 in	120 °F	Dwyer	K4741
	12 1/2 in, 14 3/4 in, 17 1/8 in, 19 3/8 in, 21 3/8 in, 23 3/8 in	120 °F	Dwyer	K4741



## Static-Pressure Tips, Pickups & Mounting Hardware

Use with differential pressure instruments such as manometers, controllers, and pressure switches to measure airflow.

**Static-pressure tips** are hook-shaped metal tips that connect to a manometer or transmitter and mount in a duct; except 1W401 is a portable unit with a magnet that holds it in place.

**Static-pressure pickups** mount to walls or ceilings and connect to pressure monitoring systems.

23Z320 is designed for cleanroom use. 23Z322 is for room mount with plastic enclosure that fits 2" x 4" electrical box. 23Z323 mounts on top of a standard 3/4"-thick ceiling tile, with its filter facing down through a 5/8" hole in the tile. 23Z324 is designed for roof or outside mounting, and is built to withstand harsh conditions.

**Static-pressure fittings** connect to the tubing of differential pressure instruments to facilitate pressure readings.

**Wall plate pickups** create an opening on a wall to view pressure readings. Foam gasket creates tight seal. Can be mounted to a standard 2" x 4" electrical box or to walls or ceilings. 23Z321 is designed for cleanroom use.

**Mounting glands and flanges** are for mounting tips and pickups to manometers and transmitters.

Insertion Length	Material	For Tubing Diameter	Includes	Mfr. Model	Item No.
<b>Static-Pressure Tips</b>					
4 in	303 Stainless Steel	3/16 in	Flange	A-489	23Z317
4 in	Stainless Steel	3/16 in	Magnet	A-303	1W401
6 in	Stainless Steel	3/16 in	Mounting Flange	A-491	23Z318
8 in	Stainless Steel	3/16 in	Mounting Flange	A-493	23Z319
	Material	For Tubing Diameter	Includes	Mfr. Model	Item No.
<b>Static-Pressure Pickups</b>					
	316 Stainless Steel	5 mm	Mounting Screws	A-414	23Z320
	Plastic	1/8 in, 3/16 in	Foam Gasket, Mounting Screws	A-418A	23Z322
	Metal	1/8 in, 3/16 in	—	A-419A	23Z323
	Plastic with Metal Plate/Conduit Connector	1/8 in, 3/16 in	EMT Conduit Fitting	A-420A	23Z324
<b>Static-Pressure Fittings</b>					
	Stainless Steel	1/8 in, 3/16 in	—	A-308	1W397
	Stainless Steel	1/4 in	—	A-307	1W399
<b>Wall Plate Pickups</b>					
	ABS Plastic	3/16 in	Anchors, Mounting Screws, Tubing	A-465	23Z325
	Stainless Steel	1/8 in, 3/16 in	Foam Gasket, Mounting Screws	A-417A	23Z321
Accessory Type	Material	Includes		Mfr. Model	Item No.
<b>Mounting Glands &amp; Flanges</b>					
Mounting Gland	Stainless Steel	Graphite Bushing, Jam Nut, Washers		A-159	1W403
Split Flange	Cadmium Plated Steel	Gasket for Mounting 3/16 in Pitot Tubes on Ducts, Nuts, Washers		A-158	1W405



## Wind Speed Indicators and Vane Anemometer



### WIND SPEED INDICATOR

Rooftop-mounted pickup reads wind velocities from 0 to 80 mph and 1 to 12 Beaufort scale directly on liquid-filled tube. Includes 50-ft. vinyl tubing.

### HANDHELD WIND SPEED INDICATOR

Quickly displays wind velocity in 2 scales: 2 to 10 mph and 4 to 66 mph. Pocket size with sturdy plastic case.

### VANE ANEMOMETER

Permanent-mount or portable instrument measures velocities from 25 to 400 fpm. Large easy-to-read scales are visible from both sides.

Description	Mfr. Model	Item No.
Wind Speed Indicator	MARK II WSI	3T307
Handheld Wind Speed Indicator	WIND METER-MPH	3T308
Mountable Vane Anemometer	480	1W431



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