



GENERAL-PURPOSE AIR VELOCITY TRANSDUCERS

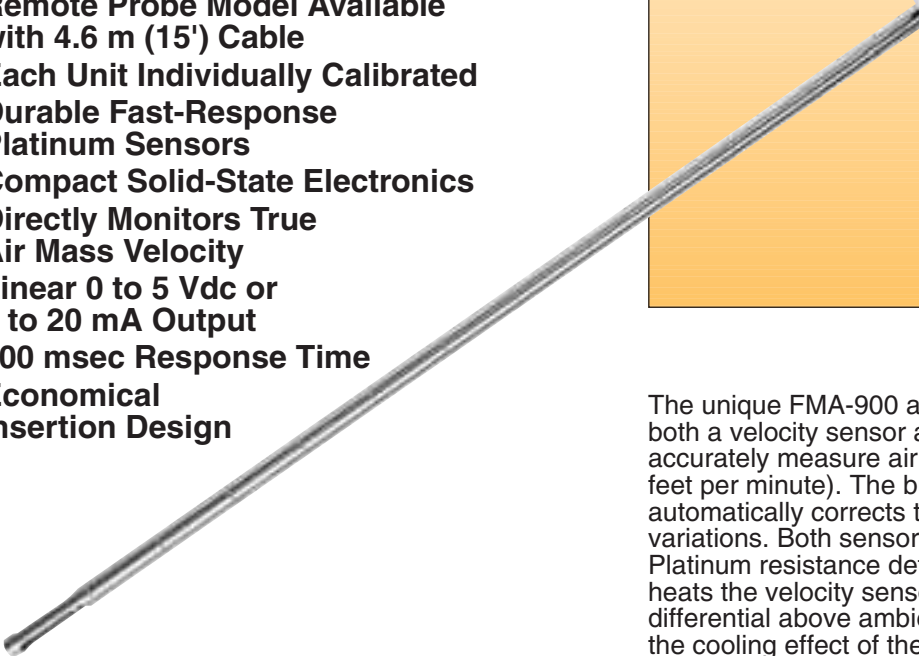
FMA-900-V Series

\$822

All models



- ✓ Up to 1.5% Accuracy
- ✓ Remote Probe Model Available with 4.6 m (15') Cable
- ✓ Each Unit Individually Calibrated
- ✓ Durable Fast-Response Platinum Sensors
- ✓ Compact Solid-State Electronics
- ✓ Directly Monitors True Air Mass Velocity
- ✓ Linear 0 to 5 Vdc or 4 to 20 mA Output
- ✓ 400 msec Response Time
- ✓ Economical Insertion Design



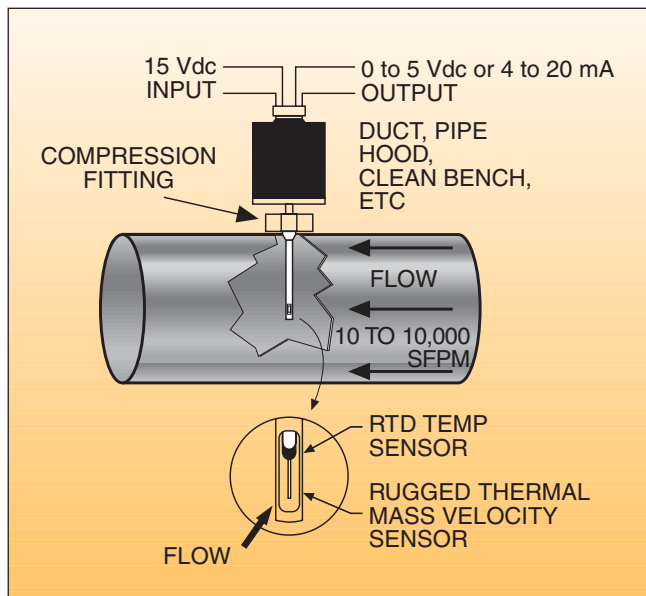
FMA-902-V, \$822, shown smaller than actual size.

The unique FMA-900 air velocity transducer utilizes both a velocity sensor and a temperature sensor to accurately measure air velocity (in SFPM, standard feet per minute). The built-in temperature sensor automatically corrects the flowrate for temperature variations. Both sensors are rugged glass-coated Platinum resistance detectors (RTDs). The circuit heats the velocity sensor to a constant temperature differential above ambient temperature and measures the cooling effect of the air flow. This design provides excellent low velocity sensitivity and high accuracy. The FMA-900 also features negligible pressure drop.

To obtain mass flow rate in SCFM (standard cubic feet/minute), the SFPM velocity indicated by the FMA-900 is multiplied by the cross-sectional area of the pipe or duct in square feet. A traverse across the pipe or duct can be performed to determine the mounting location for average velocity indication. The FMA-900 can be mounted in pipes (down to 38 mm [1.5"] size) with the use of SSLK compression fittings (SSLK-14-14, \$8.50). PTFE ferrules are required (T-FER-1/4, \$40/10 pack).

Each unit is individually calibrated in OMEGA's NIST-traceable wind tunnel.

Suggested power supply; **FPW-15, \$75.**



Replacement mating connector, model FMA-3CON, \$25.

For compatible meters and controllers, see the iSeries, Section M.

FMA-902-V-R,
\$852, shown smaller
than actual size.



Models with remote probe
add suffix "-R" and \$30.

SPECIFICATIONS

Accuracy: 1.5% FS @ room temperature
2% at 50°C; 3% at 75°C; 3½% at 100°C;
4% at 121°C; add 1% FS below 1000 SFPM
Repeatability: ±0.2% FS
Initial Stabilization Time in Flow: 40 sec
Response Time/After Stabilization:
400 msec to within 63% of final value
at room temperature
Probe: Aluminum oxide ceramic glass
coating, epoxy; probe body 304SS
Probe Temperature:
-40 to 121°C (-40 to 250°F)

Probe Pressure: 150 psig maximum
Electronics Temperature:
Operating: 0 to 50°C (32 to 122°F)
Storage: 0 to 70°C (32 to 158°F)
Operating Relative Humidity: Less
than 80% RH, without condensation
Ambient Temp Compensation: About
5 min for 11°C (20°F) temp change
Outputs: 0 to 5 Vdc or 4 to 20 mA
Voltage Load Resistance:
250 Ω minimum
Current Loop Resistance:
0 Ω minute to 400 Ω maximum; 4-wire

Power: 15 to 24 Vdc, 300 mA
(0 to 100 and 0 to 200 SFPM only);
15 to 18 Vdc, 300 mA (all other ranges)
Accessories: Mating connector pre-
wired to 4.6 m (15') shielded cable (with
built-in ferrite core) included, standard
Dimensions:
Case: 89 H x 51 W x 31.8 mm D
(3.5 H x 2 W x 1.25" D)
Probe: 6.35 mm (0.25") O.D.,
330 mm (13") length
Short Probe (-S): 6.35 mm (0.25") O.D.,
95 mm (3.75") length
Weight: 160 g (5.6 oz)

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)				
Model No. 0 to 5 V Output	Price	Model No. 4 to 20 mA Output	Price	Range
FMA-900-V	\$822	FMA-900-I	\$882	0 to 100 SFPM
FMA-901-V	822	FMA-901-I	882	0 to 200 SFPM
FMA-902-V	822	FMA-902-I	882	0 to 500 SFPM
FMA-903-V	822	FMA-903-I	882	0 to 1000 SFPM
FMA-904-V	822	FMA-904-I	882	0 to 2000 SFPM
FMA-905-V	822	FMA-905-I	882	0 to 5000 SFPM
FMA-906-V	822	FMA-906-I	882	0 to 10,000 SFPM

Accessories

Model No.	Price	Description
CAL-3-FLOW	\$225.00	NIST-traceable 4-point calibration certificate
FPW-15	75.00	+15 Vdc power supply
FMA-3CON	25.00	Replacement mating connector
SSLK-14-14	8.50	Compression fitting
T-FER-1/4	40.00	PTFE ferrules (10-pack)
FW-0119	155.00	Reference Book: Flow Measurement

Comes with 4-point certificate of compliance, mating connector pre-wired to 4.6 m (15') shielded cable and complete operator's manual.
To order with 95 mm (3.75") probe instead of standard 330 mm (13") probe, add suffix "-S" to model number and add \$30 to price.
To order models with remote probe add suffix "-R" to model number and \$30 to price.

Ordering Example: FMA-904-I, probe with 4 to 20 mA output, 0 to 2000 SFPM range, plus CAL-3-FLOW, NIST 4-point calibration certificate,
\$882 + 225 = \$1107.