SUBMITTAL SHEET

OAM II

OUTDOOR AIRFLOW MEASURING SYSTEM

PAGE 1 OF 4 (Transmitter Specifications)

PERFORMANCE SPECIFICATIONS

System Accuracy:	+/- 5% of reading from 150 to 2400 SFPM.
Velocity Range:	100 to 3000 SFPM.
Temperature Sensor Accuracy:	+/- 0.1°F at 32°F.
Differential Pressure Resolution:	+/- 0.0004" WC.
Absolute Pressure Accuracy:	+/- 0.015 PSI.
Barometric Pressure Accuracy:	Automatic barometric compensation for elevation, +/- 1hPa (0.029" Hg). Includes circuit board temperature monitoring.

OPERATING CONDITIONS

Ambient Temperature:	-20 to 180°F (storage).
Fluid Temperature Range:	0 to 120°F (without optional heater), -40 to 120°F (with optional heater).
Humidity:	0 to 99% RH, non-condensing.

INPUT POWER

24 VAC	15 VA @ 24 VAC; 40 VA (with optional heater).
24 VDC	10 W @ 24 VDC; 35 W (with optional heater).

TRANSDUCER DESIGN

Available Options:

❑ Single Channel, one (1) transducer pair. ❑ Dual channel, two (2) transducer pairs.

I/O SIGNALS

Analog Outputs:	Four (4) isolated analog outputs, selectable based on configuration.
Serial Communication:	RS485, BACnet®/MSTP or Modbus®/RTU® with 1/3 unit load.
Temperature Input(s):	100 OHM 3 wire RTDs, quantity provided (one or two) based on configuration.

PROGRAMMING

Menu driven user interface via four (4) pushbuttons.

ELECTRONICS ENCLOSURE

Display: 3.5" diagonal color graphical TFT LCD.

Available Options:

❑ Aluminum, NEMA 1.
❑ Polyester, NEMA 4X with window.
❑ Polyester, NEMA 4X, no window.
❑ Polyester, NEMA 4X, no window, with heater.

ELECTRICAL CONNECTIONS

Power:	Removable terminal block for use with 16 to 24 gauge wire.
Communications:	Removable terminal block for use with 16 to 24 gauge wire.
I/O:	Removable terminal block for use with 16 to 24 gauge wire.

PROCESS CONNECTIONS

Available Options:

❑ 1/8" FNPT, for both High and Low signal connections.
❑ 1/4" compression, for both High and Low signal connections.
❑ 3/16" hose barb, for both High and Low signal connections.

APPROVALS

FCC:	Part 15 Subpart B, Class A device.
BTL:	Certified to BACnet® standard ISO 16484-5 Rev. 1.12.

P.O. Box 6358, Santa Rosa, CA 95406 (707) 544-2706
www.airmonitor.com hvacsales@airmonitor.com

Air Monitor
Precision Airflow Measurement
An ONICON Brand

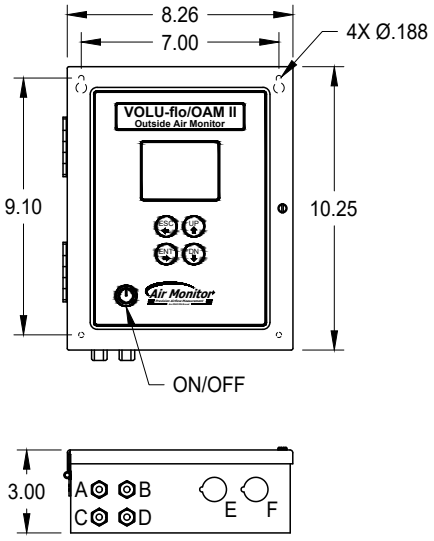
SUBMITTAL SHEET

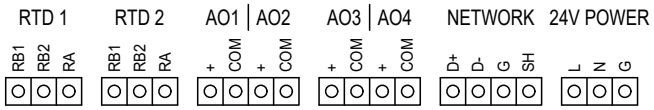
OAM II

OUTDOOR AIRFLOW MEASURING SYSTEM

PAGE 2 OF 4 (Transmitter Specifications)

DIMENSIONAL INFORMATION - NEMA 1 TRANSMITTER ENCLOSURE



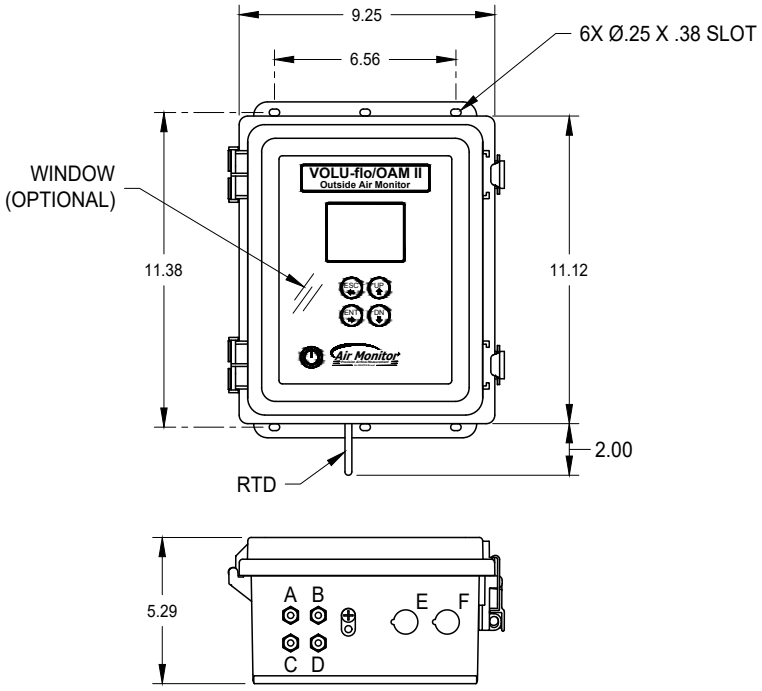


WIRING TERMINALS
(Located Inside Enclosure)

A. HIGH SYSTEM 1
B. LOW SYSTEM 1
C. HIGH SYSTEM 2
D. LOW SYSTEM 2
(OPTION FOR MIN / ECON OR DUAL MODE SYSTEMS)
E. DC SIGNAL OUTPUTS
F. AC POWER INPUT

CONNECTION CODE

DIMENSIONAL INFORMATION - NEMA 4X TRANSMITTER ENCLOSURE



P.O. Box 6358, Santa Rosa, CA 95406 (707) 544-2706
www.airmonitor.com hvacsales@airmonitor.com

Air Monitor
Precision Airflow Measurement
An ONICON Brand

SUBMITTAL SHEET

OAM II

OUTDOOR AIRFLOW MEASURING SYSTEM

PAGE 3 OF 4 (Uni-Sensor Specifications)

PERFORMANCE SPECIFICATIONS

Free Inlet (Hood):	100 to 3000 SFPM flow range, based on configuration.
Ducted:	100 to 3000 SFPM flow range, based on configuration.
Louver:	Operating range from 0.003" to 5.0" WC.

MATERIALS OF CONSTRUCTION 316 Stainless Steel.

OPERATING CONDITIONS

Airflow Velocity:	0 to 3000 SFPM.
Fluid Temperature Range:	-40 to 120°F.
Humidity:	0 to 100% RH, condensing.
Environment:	Impervious to airborne dirt, debris and moisture.

PROCESS CONNECTIONS

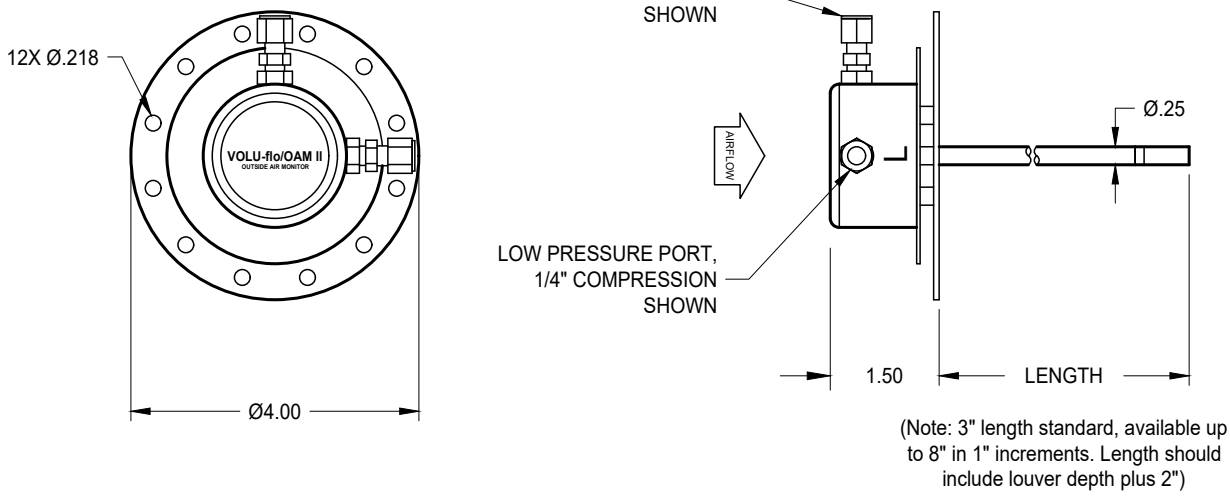
Available Options:

- ❑ 1/8" FNPT, for both High and Low signal connections.
- ❑ 1/4" compression, for both High and Low signal connections.
- ❑ 3/16" hose barb, for both High and Low signal connections.

UNI-SENSOR QUANTITY (One sensor included with Transmitter or Station, add sensors up to 10 max. if req'd per below)

Multiple Inlets:	1 sensor for each additional inlet
Large Inlets (>30 sq.ft.):	>30 to 60 sq.ft. = 2 sensors >60 to 90 sq.ft. = 3 sensors
Large Aspect Ratios (>6:1):	0 to 6:1 ratio = 1 sensor > 6:1 to 12:1 ratio = 2 sensors >12.1 to 18:1 ratio = 3 sensors

DIMENSIONAL INFORMATION - UNI-SENSOR



(Note: 3" length standard, available up to 8" in 1" increments. Length should include louver depth plus 2")

P.O. Box 6358, Santa Rosa, CA 95406 (707) 544-2706
www.airmonitor.com hvacsales@airmonitor.com

Air Monitor
Precision Airflow Measurement
An ONICON Brand

SUBMITTAL SHEET

OAM II

OUTDOOR AIRFLOW MEASURING SYSTEM

PAGE 4 OF 4 (Ordering Information)

ORDER CODE INFORMATION

OAM II-ABCD(-EEFFG)(-HHIIJ)(-SPC)

A = MODEL CONFIGURATIONS

2	Single Channel, Single System
6	Dual Channel, Single System Min/Economizer (Split) Flow Range
8	Dual Channel, Dual (Separate) Systems

B = ENCLOSURE

1	NEMA 1 aluminum enclosure
2	NEMA 4X polyester enclosure with window
3	NEMA 4X polyester enclosure, no window
4	NEMA 4X polyester enclosure, no window, with heater

C = FEATURE SET - Based on Configuration

2	One (1) 100 OHM 3 wire RTD (for Single or Split Mode)
3	Two (2) 100 OHM 3 wire RTDs (for Dual Mode)

D = PROCESS CONNECTIONS

1	1/8" FNPT
2	1/8" FNPT x 1/4" compression
3	1/8" FNPT x 3/16" hose barb

(EEFFG) Channel One Flow Range and Uni-Sensor Configuration

EE = CHANNEL ONE FLOW RANGE

1B	150 to 2400 SFPM

FFG = CHANNEL ONE UNI-SENSOR(S) LOCATION

nn3	nn = 01 through 10 Uni-Sensors, as required for Channel One, 3 = 3" Uni-Sensor
MMM	3" Uni-Sensor factory mounted to VOLU-flo OAM II Station. See station information for quantity of sensors provided.

(HHIIJ) Channel Two Flow Range and Uni-Sensor Configuration (required only for Two Channel configuration)

HH = CHANNEL TWO FLOW RANGE

2B	150 to 2400 SFPM

IIJ = CHANNEL TWO UNI-SENSOR(S) LOCATION

nn3	nn = 01 through 10 Uni-Sensors, as required for Channel Two, 3 = 3" Uni-Sensor
MMM	3" Uni-Sensor factory mounted to VOLU-flo OAM II Station. See station information for quantity of sensors provided.

NOTES:

1. Number of channels is based on model configuration selected.
2. Flow rate ranges specified for channel 1 and 2 are based on standard conditions.
3. Actual flow rate range is determined by minimum and maximum temperatures and altitude.
4. Uni-Sensor quantity is based on type and size of installation.
5. Uni-Sensor design is based on type of installation.
6. Options selected may impact price.

P.O. Box 6358, Santa Rosa, CA 95406 (707) 544-2706
www.airmonitor.com hvacsales@airmonitor.com

Air Monitor
Precision Airflow Measurement
An ONICON Brand