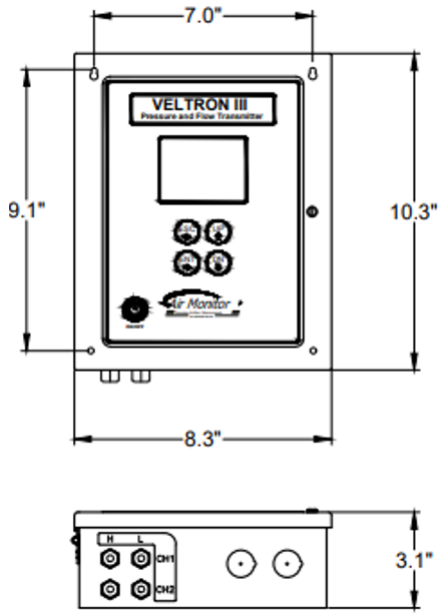
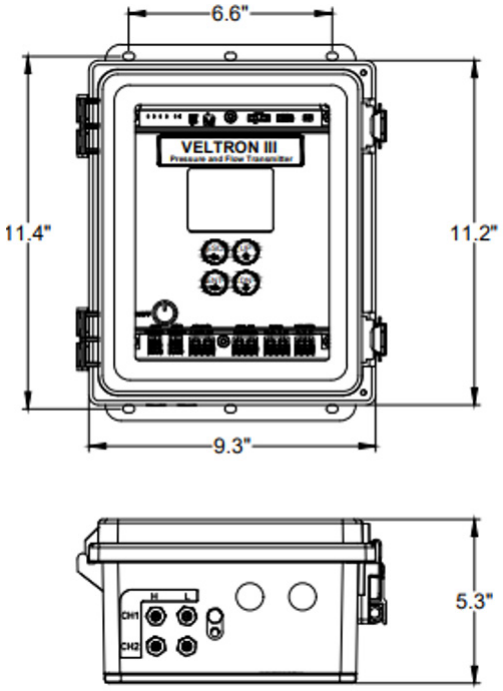
| | |
|---|---|
| **PERFORMANCE SPECIFICATIONS**<br>System Accuracy:<br>Transducer Accuracy:<br>Temperature Sensor Accuracy:<br>Differential Pressure Resolution:<br>Absolute Pressure Accuracy:<br>Barometric Pressure Accuracy: | <br>±3% of reading when combined with Air Monitor Probes<br>±0.4% of reading from 0.10 to 5.0 in W.C. ±0.75% of reading from 5.0 to 10.0 in W.C.<br>±0.1°F at 32°F<br>±0.0004"WC.<br>±0.015 PSI.<br>Automatic barometric compensation for elevation, ±1hPa (0.029" Hg). Includes circuit board temperature monitoring. |
| **OPERATING CONDITIONS**<br>Ambient Temperature:<br>Fluid Temperature Range:<br>Humidity:<br>Overpressure Limit: | <br>-20°F to 180°F (storage).<br>0°F to 120°F (without optional heater), -40 to 120°F (with optional heater).<br>0 to 99% RH, non-condensing.<br>30 psig |
| **SYSTEM CONFIGURATIONS** | Single System, Dual-Channel (Single System), Dual-Channel (Separate Systems) |
| **INPUT POWER**<br>24 VAC:<br>24 VDC: | <br>15 VA @ 24 VAC; 40 VA (with optional heater).<br>10 W @ 24 VDC; 35 W (with optional heater). |
| **TRANSDUCER DESIGN**<br>Available options: | <br>• 0.1" & 1"<br>• 0.2" & 2"<br>• 0.4 & 5"<br>• 1" & 10"<br>• 2" & 20" |
| **I/O SIGNALS**<br>Analog Outputs:<br>Serial Communication:<br>Temperature Input(s): | <br>Four (4) isolated analog outputs, selectable based on configuration.<br>RS485, BACnet/MSTP or MODBUS/RTU with 1/3 unit load.<br>100Ω 3 wire RTDs, quantity provided (one or two) based on configuration. |
| **PROGRAMMING** | Menu driven user interface via four (4) pushbuttons. |
| **ELECTRONICS ENCLOSURE**<br>Display:<br>Available Options: | <br>3.5" diagonal color graphical TFT LCD.<br>• Aluminum, NEMA 1.<br>• Polyester, NEMA 4X with window.<br>• Polyester, NEMA 4X, no window.<br>• Polyester, NEMA 4X, no window, with heater. |
| **ELECTRONICS CONNECTIONS**<br>Power:<br>Communications:<br>I/O: | <br>Removable terminal block for use with 16 to 24 gauge wire.<br>Removable terminal block for use with 16 to 24 gauge wire.<br>Removable terminal block for use with 16 to 24 gauge wire. |
| **PROCESS CONNECTIONS**<br>Available Options: | <br>• ¼" compression, for both High and Low signal connections.<br>• 3/16" hose barb, for both High and Low signal connections. |

| | |
|---|---|
| **DIMENSIONAL SPECIFICATIONS**<br>NEMA 1 ENCLOSURE |  |
| **DIMENSIONAL SPECIFICATIONS**<br>NEMA 4X ENCLOSURE |  |

## MODEL SELECTION GUIDE - VELTRON III/ABCD-EFGH

A B C D - E F G H

### VELTRON III

| A = Model Configurations |
|---|
| 2 = Single Channel, Single System |
| 6 = Dual-Channel, Split System |
| 8 = Dual-Channel, Dual (Separate) Systems |

| B = Enclosure |
|---|
| 1 = NEMA 1 Aluminum |
| 2 = NEMA 4X Poly Enclosure with window |
| 3 = NEMA 4X Poly Enclosure, no window |
| 4 = NEMA 4X Poly Enclosure, no window with heater |

| C = Feature Set (Based on model configuration) |
|---|
| 1 = 24 VAC/DC Power, Four (4) Analog Outputs, RS485 Serial Communication |
| 2 = 24 VAC/DC Power, Four (4) Analog Outputs, RS485 Serial Communication and One (1) 100Ω 3 Wire RTD |
| 3 = 24 VAC/DC Power, Four (4) Analog Outputs, RS485 Serial Communication and Two (2) 100Ω 3 Wire RTD |

| D = Process Connection |
|---|
| 2 = 1/4" Compression Fittings |
| 3 = 3/16" Hose Barb Fittings |

| E = Channel One Transducers |
|---|
| A = Uni-Directional Transducer |
| B = Bi-Directional Transducer (measures negative pressure for static pressure mesurement deviced)* - ***Coming Soon*** |

| F = Channel One Pressure Range |
|---|
| 1 = Maximum Operating Pressure low/high pair: 0.1" & 1" w.c. (250 Pa) |
| 2 = Maximum Operating Pressure low/high pair: 0.2" & 2" w.c. (500 Pa) |
| 3 = Maximum Operating Pressure low/high pair: 0.4" & 5" w.c. (1250 Pa) |
| 4 = Maximum Operating Pressure low/high pair: 1" & 10" w.c. (2500 Pa) |
| 5 = Maximum Operating Pressure low/high pair: 2" & 20" w.c. (5000 Pa) - ***Coming Soon*** |

| G = Channel Two Transducers (requires A = 6 or 8) |
|---|
| 0 = None (Requires A=2) |
| A = Uni-Directional Transducer |
| B = Bi-Directional Transducer (measures negative pressure for static pressure measurement devices)* - ***Coming Soon*** |

| H = Channel Two Pressure Range (Requires A = 6 or 8) |
|---|
| 0 = None (Requires A=2) |
| 1 = Maximum Operating Pressure low/high pair: 0.1" & 1" w.c. (250 Pa) |
| 2 = Maximum Operating Pressure low/high pair: 0.2" & 2" w.c. (500 Pa) |
| 3 = Maximum Operating Pressure low/high pair: 0.4" & 5" w.c. (1250 Pa) |
| 4 = Maximum Operating Pressure low/high pair: 1" & 10" w.c. (2500 Pa) |
| 5 = Maximum Operating Pressure low/high pair: 2" & 20" w.c. (5000 Pa) - ***Coming Soon*** |

**VELTRON III PRESSURE & AIRFLOW TRANSMITTER**
**(Transmitter Specifications)**

# SUBMITTAL SHEET

| ITEM | TAG/QTY | FLOW ELEMENT: (AMC, Peizo Ring, Other) | MAXIMUM DESIGN AIRFLOW | ANALOG FULL SCALE | PROBE SIDE DUCT DIMENSION OR CIRCULAR DIAMETER | ADJACENT SIDE DUCT DIMENSION (specifiy if oval) | FLOW UNITS: (CFM, l/s, M3/h, CFH, l/m) | CONDITIONS: (Actual, Standard) | ANALOG OUTPUT: (4-20mA, 0-5V, 0-10V) | DP UNITS: (Inch W.C., Pa, mm W.C.) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

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# VELTRON III SUBMITTAL AND DATA SHEET

TO: DATE:

PROJECT NAME:
CONTRACTOR:
ENGINEER:
ONICON REP:

**SUBMITTAL FOR:**

RECORD
APPROVAL

APPROVED BY:

**RELEASED FOR:**

MANUFACTURING AND SHIPMENT ☐
HOLD FOR RELEASE ☐
APPROVED ☐
APPROVED AS NOTED ☐
DISAPPROVED ☐

EXPLANATION:

PLEASE RETURN APPROVED DRAWINGS TO:

ATTENTION:

SUBMITTED BY:

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