

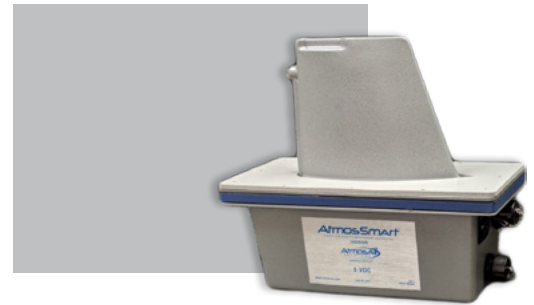
PRODUCT SUBMITTAL

AtmosSmart



APPLICATION

The AtmosSmart ionization system's sensor head & controller, is intended to be mounted in the return duct or air handler of a heating, cooling, or ventilating system. The unit is intended to monitor and control the AtmosAir® Active Ionization Systems. With data visibility using Bac-Net.



SPECIFICATIONS

General Product Information

Product Description	Feedback for active ionization intensity; monitoring & control
Product Application	Air Handling Units; Roof top units
Control Capacity	Controls up to eight (8) AtmosAir® Ionization systems.* (Requires master control box *Optional) Standard unit; (1) BPI. Optional Unit; (2) BPI (Must be ordered)

Sensor Suite Full** / Lite ‡	Test Range	Sensor Application
** Air-Quality Sensor 1 ‡	50 ~ 500 ppm	Integral – TVOC (Total volatile organic compounds)
** Air-Quality Sensor 2	0.01 ~ 4.0 ppm	Integral – HCHO (Formaldehyde Concentration)
** Air-Quality Sensor 3	0.5 ~ 250 µg/m ³	Integral – PM 2.5 (Particulate Matter 2.5)
** Humidity Sensor ‡	5% ~ 95% (%RH)	Integral
** Temperature ‡	-10°C ~ 50°C	Integral
** Ozone Sensor ‡	0.01 ~ 5.0 ppm	Integral
** Carbon Monoxide	0.25 ~ 2.5 ppm	Integral
** Carbon Dioxide ‡	100 ~ 2500 ppm	Integral

Other Sensors

Flow Sensor	Differential pressure switch* (Optional; Must be ordered separately)
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Electrical Statistics

Rated Voltage	90VAC to 240VAC Power Supply
Frequency (Hz)	50/60
Voltage Range (V)	Control - 5VDC
Power Consumption (W)	12
Current (A)	2.4
Regulation of BPI Control	Algorithm-Based Modulation
Output Current for Modules	5VDC to 24VDC
Interface	Data/BMS

Product Ratings

Ambient Temp.	-10°C ~ 50°C
Protection Class	0% - 99% Non-Condensing
Humidity	0% - 99% Non-Condensing
Ingress Protection	IP41 (DIN EN 60529)
Electrical Safety Compliance	EN 60730-1
EMC Compliance	EN 60730-1, EN 61000-6-1, EN 61000-6-3

Installation Statistics

Directives Dimension (L/H/D)	2006/95/EC, 2004/108/EC, 2011/65/EU
Required Space (L/H/D)	AA508FC (Typ.) 704mm (~27.75 in) (L) x 273mm (~10.75 in) (H) x 241mm (~9.5 in) (D)
Sensor Head Size (L/W/D)	305mm (~12 in) (L) x 127mm (~5 in) (H) x 267mm (~10.5 in) (D)
Weight Installation	Sensor 1.5Kg (~3.3 lbm); AA508FC (Typ.) 10.04Kg (~22 lbm)
Treated Air Volume	Specific Calculation = M dot
Internet Connection	TCP/IP