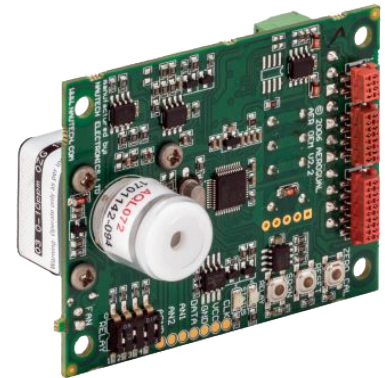


SM50

SM50 is a multi-functional ozone sensor module designed for use by Original Equipment Manufacturers (OEMs) who wish to access state of the art sensor technology and integrate it into their own equipment. The SM50 sensor module provides ppb level ozone measurement in a flexible cost effective package. Each module is factory calibrated and ready to use with a multi-point calibration (NIST traceable).



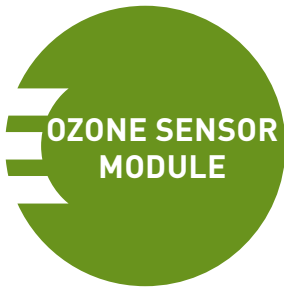
TYPICAL APPLICATIONS

- Ambient air quality monitoring
- Low cost sensor networks
- Medical devices
- Food and beverage
- Ozone generator control
- HVAC
- Sanitation
- Refrigeration

SPECIFICATION

Power		Diagnostics	
Input	11 - 24 VDC	If sensor failure then:	
Consumption	2.5 - 6 W max	Status LED	Fast green flash
Outputs		Relay	AA version (energised) LED red
0-5 V analog	8 bit		AB version (de-energised) LED off
Relay	Onboard 24 VDC / 2A, NO, NC, COM		C10 version (de-energised) LED off
2 x LED indicators	Relay status Red = activated Sensor status Green = normal Green slow flash (2 seconds) = warming up Green fast flash (0.3 seconds) = failure	0-5 V analog output	5 V
RS232	2-wire proprietary protocol (not ASCII)	Mechanical	
RS485	2-wire proprietary protocol (not networkable)	Board Size	60 mm x 75 mm
Inputs		Mounting	Screw or extrusion slot
Relay set points	Software and data cable supplied	Fan (if required)	On-board ball-bearing 50,000 hours
Zero calibration	Auto-calibration zero button	Sensor filter	On-board
Reset	Microprocessor reset button	Environmental	
Span calibration	Factory use only	Operating temperature	0°C to 50°C [-20°C to 50°C if enclosed]
Analog inputs	2 Voltage (optional)	Operating humidity	5% to 95% RH (non-condensating)
Digital input	2 x GPIO (optional, can be used for digital temp/RH sensor)		





SM50

BENEFITS

- PPB levels of detection at a fraction of the cost of analyzers
- Complete ready to integrate sensor module
- Factory calibrated and traceable back to reference standards
- Active fan sampling ensures best possible measurement
- Proprietary firmware for enhanced signal processing
- A range of outputs available – analogue, digital, relays



ORDERING INFORMATION

Included

Gas sensitive semiconductor sensor
Circuit board incl. outputs
Proprietary firmware
Factory calibration certificate

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