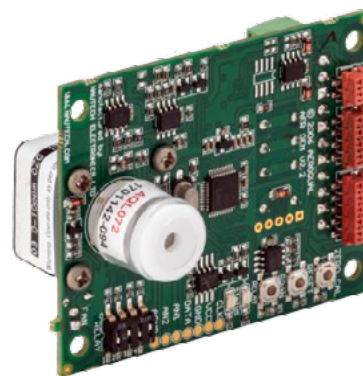


SM50

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).



Specification

Power	
Input	11 - 24 VDC
Consumption	2,5 - 6 W max
Outputs	
0-5 V analog	8 bit
Relay	Onboard 24 VDC / 2A, NO, NC, COM
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
RS232	2-wire proprietary protocol (not ASCII)
RS485	2-wire proprietary protocol (not networkable)
Inputs	
Relay set points	Software and data cable supplied
Zero calibration	Auto-calibration zero button
Reset	Microprocessor reset button
Span calibration	Factory use only
Analog inputs	2 Voltage (optional)
Digital input	2 x GPIO (optional, can be used for digital temp/RH sensor)

Ozone sensor module

Specification

Diagnostics

If sensor failure then:

Status LED	Fast green flash
Relay	AA version (energised) LED red
	AB version (de-energised) LED off
	C10 version (de-energised) LED off
0-5 V analog output	5 V

Mechanical

Board size	60 mm x 75 mm
Mounting	Screw or extrusion slot
Fan (if required)	On-board ball-bearing 50,000 hours
Sensor filter	On-board

Environmental

Operating temperature	0 °C to 50 °C (-20 °C to 50 °C if enclosed)
Operating humidity	5% to 95% RH (non-condensating)

Ordering information

Included

Gas sensitive semiconductor sensor, circuit board incl. outputs, proprietary firmware, factory calibration certificate

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

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