



MiniPID 2 PPB XF

OEM Gas Sensor with State-of-the-Art Sensing Technology

The MiniPID 2 XF is engineered for prolonged, uninterrupted monitoring. Incorporating Ion Science's patented long-life filter ensures unparalleled stability and durability for dynamic and reliable response to a vast array of volatile organic compounds (VOCs) in a wide range of applications.



Key Features

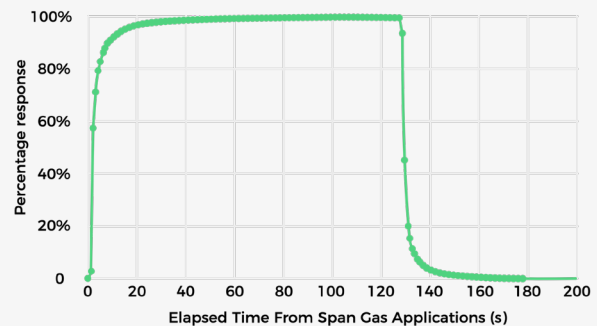
- >10,000 Hour Filter Lifetime
- 10,000 Hours Lamp Life
- Anti-contamination Design
- Humidity Resistant
- Low Cost of Ownership
- Serviceable Electrode Stack and Lamp
- Intrinsically Safe
- Series 4/A Package

Typical Applications

- Air Quality
- Indoor Air Quality Monitoring
- HVAC
- Continuous Monitoring
- Area Monitoring
- Environmental Monitoring
- Smart Cities
- IoT

Performance

Electrode Stack Colour	White
Minimum Detection Limit	1 ppb
Range	>40 ppm
T90 Response Time (S)	<12s
Sensitivity	>30 mV/ppm



Power & Signal

Supply Voltage (using internal regulator)	3.6 - 18 V (non intrinsically safe 10 - 18 V)
Supply Voltage (using a regulated power supply)	3 - 3.6 V
Current	20 - 32 mA (130 for 100 ms at start up)
Power Consumption	100 mW at 3.3 V
Output Signal (using a regulated power supply)	0 to rail voltage - 0.1 V

Relative Humidity Range

Temperature Range	-40 to 65 °C
Relative Humidity Range	0 - 99% RH (non condensing)

Lifetime & Warranty

Sensor Life	>5 years
Lamp Life	10,000 hours
Warranty	10.6 eV lamp and MiniPID 2 Body = 12 months

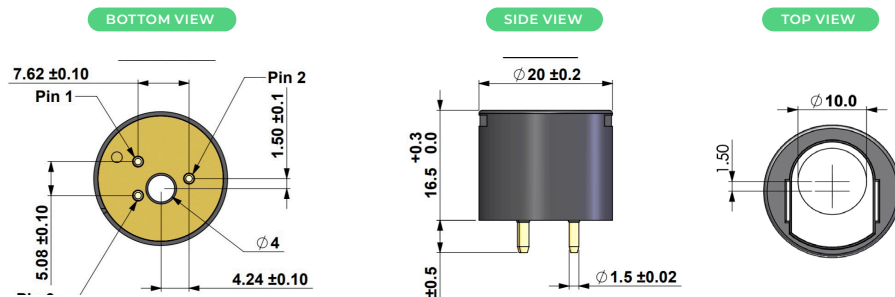
Order Code	Intrinsically Safe	Supply Voltage
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MP3SBLBXAU2	✓	3.0V to 3.2V
MP3SBLBXBU2	✓	3.0V to 3.2V
MP3SBLBXC2	✓	3.0V to 3.2V
MP3SBLBXNU2	✗	3.0V to 3.2V

Lifetime & Warranty

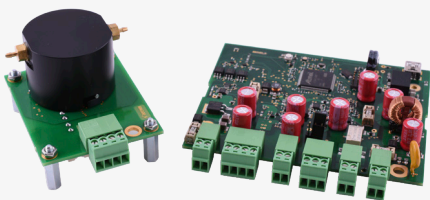
Patents	US 7.046.012 EC 1474681
Europe	ATEX II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1W
Worldwide	IECEX II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1W
North America	For Use in Class I, Division 1, Groups A, B C and D Hazardous Locations
Eurasian Customs Union	Nº EAЭC RU C-GB.HA65.B.00635/20

Drawings



Sensor Development Kit (SDK)

Sensor Development Kit is used as an efficient way to test and integrate the ION Science photoionisation detection sensors into any application. SDK includes everything needed to run MiniPID 2 including an integration board, sensor board, gas delivery hood and a PC application.



Typical Applications

ION Science is a leading manufacturer of VOC gas sensors, our PID sensor technology is trusted by major gas detection manufacturers globally. Other gas sensors from ION Science include:

- MiniPID 2 PPM
- MiniPID 2 PPB
- MiniPID 2 PPM WR
- MiniPID 2 PPB WR
- MiniPID 2 HS
- MiniPID 2 10.0 eV
- MiniPID 2 11.7 eV

