



MiniPID 2 PPB

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



MiniPID 2 PPB is optimised to deliver an exceptionally low background which allows for optimum low-end sensitivity whilst maintaining a wide dynamic range.

Key Features

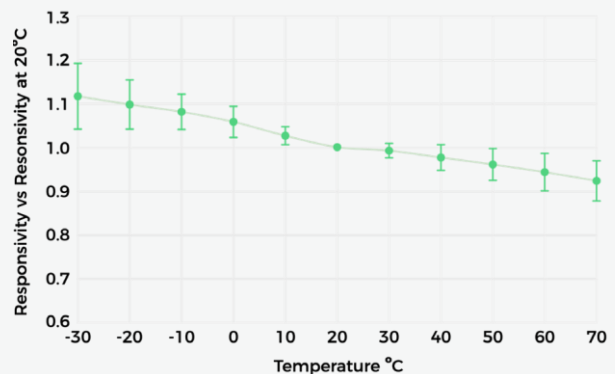
- Wide dynamic range
- 10,000 Hours Lamp Life
- Anti-contamination Design
- Humidity Resistant
- Lamp out diagnostic
- Serviceable Electrode Stack and Lamp
- Intrinsically Safe
- Series 4/A Package

Typical Applications

- Industrial health and safety
- Confined space entry
- HVAC
- Air quality monitoring
- Arson investigation
- Indoor air quality monitoring
- Leak detection
- Soil contamination and

Performance

Electrode Stack Colour	White
Minimum Detection Limit	1 ppb
Range	>40 ppm
T90 Response Time (S)	<8s
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

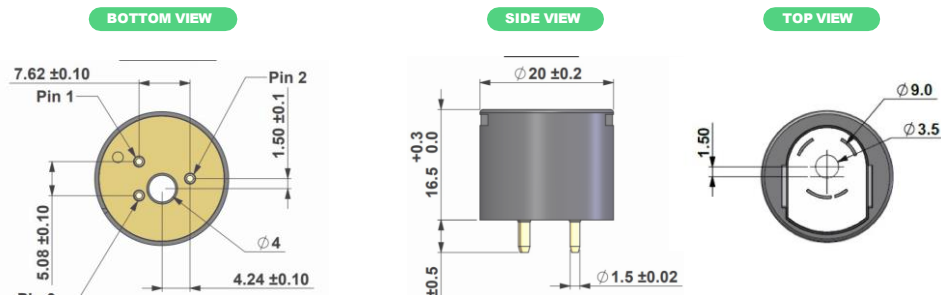
Order Code	Intrinsically Safe	Supply Voltage
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MP3SBLBAU2	✓	3.0V to 3.2V
MP3SBLBBU2	✓	3.2V to 3.6V
MP3SBLBCU2	✓	3.6V to 10.0V
MP3SBLBNU2	✗	3.6V to 18.0V

Lifetime & Warranty

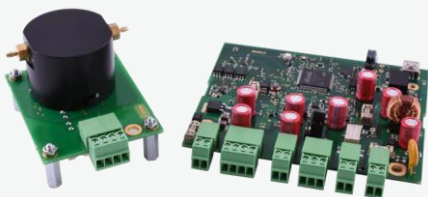
Patents	US 7.046.012 EC 1474681
Europe	ATEX II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1W
Worldwide	IECEx II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1W
North America	UL913 (8th) Edition Class I, II, III, Division 1 CSA-C22.2 No157-92
Eurasian Customs Union	Nº EAЭC RU C-GB.HA65.B.00635/20

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

