



# 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

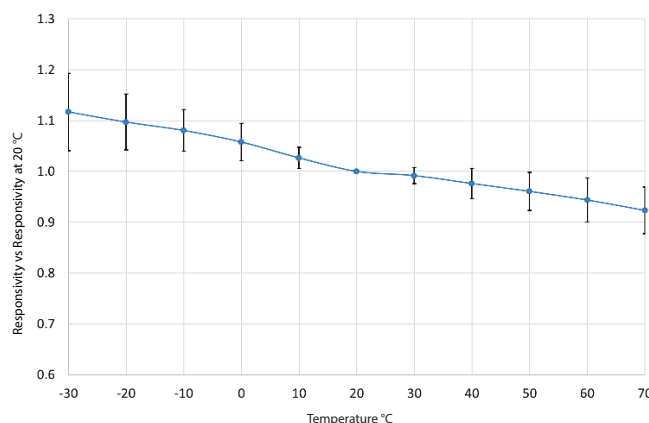
- Wide dynamic range
- Anti-contamination design
- Humidity resistant
- 10,000 hours lamp life
- Lamp out diagnostic
- Serviceable electrode stack and lamp
- Intrinsically safe
- Series 4/A package

## Typical Applications

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

## Performance

Electrode Stack Colour	White
Minimum Detection Limit	1 ppb
Range	>40 ppm
T90 Response Time (S)	<8
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 internal regulator)	0 - 3.2 V
Output Signal (using a regulated power supply)	0 to rail voltage - 0.1 V

## Environmental

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 Body = 12 months

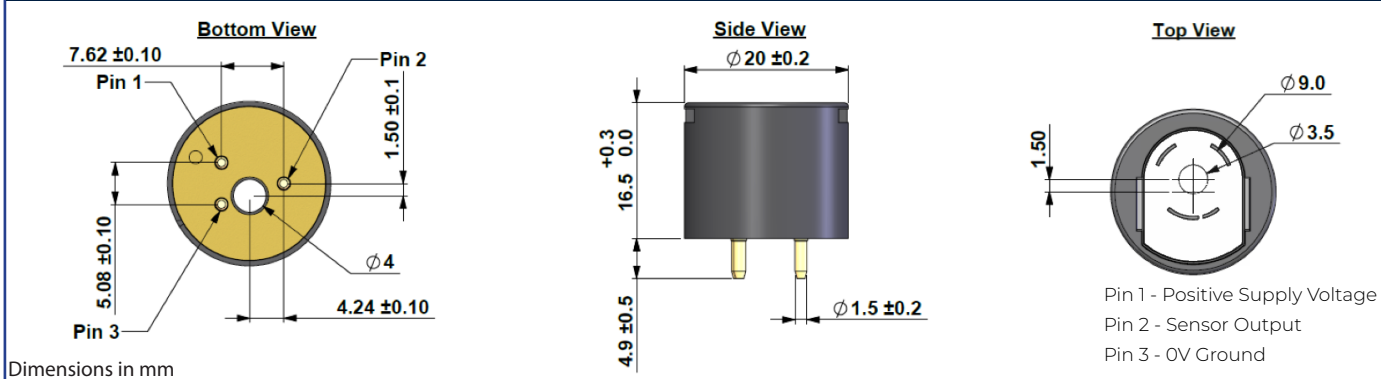
## Order Code                      Intrinsically Safe                      Supply Voltage

MP3SBLBAU2	✓	3.0V to 3.2V
MP3SBLBBU2	✓	3.2V to 3.6V
MP3SBLBCU2	✓	3.6V to 10.0V
MP3SBLBNU2	✗	3.6V to 18.0V

## Patents & Certification

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	№ EAЭC RU C-GB.HA65.B.00635/20

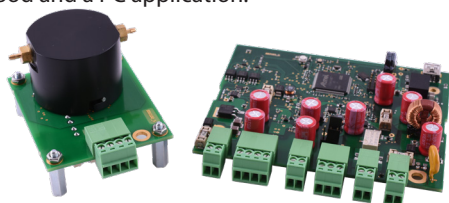
## Drawings



## Sensor Development Kit (SDK)

Sensor Development Kit is used as an efficient way to test and integrate the ION Science photoionization 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.



## Other MiniPID 2 Sensors Available

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

