



MiniPID 2 11.7 eV

OEM Gas Sensor with State of the Art Sensing Technology



Only available from ION Science, the 11.7 eV lamp extends the range of detectable compounds by PID to include chlorocarbons, unsaturated fluorocarbons, formaldehyde, ethylene and methanol.

Key Features

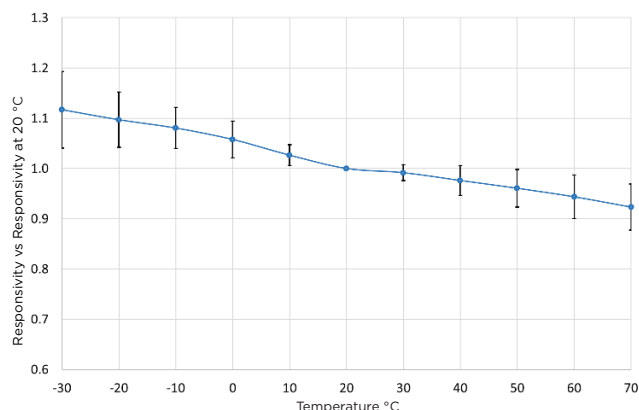
- Wide dynamic range
- Anti-contamination design
- Humidity resistant
- Serviceable electrode stack and lamp
- Intrinsically safe
- Series 4/A package

Typical Applications

- Industrial health and safety
- Indoor air quality
- Pharmaceutical
- Fruit ripening and storage
- Chromatography
- Agriculture

Performance

Electrode Stack Colour	White
Minimum Detection Limit	100 ppb
Range	>100 ppm
T90 Response Time (S)	<8
Sensitivity	>1 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	Sensor body >5 years
Lamp Life	300 - 500 hours continuous illumination
Warranty	MiniPID 2 body = 12 months

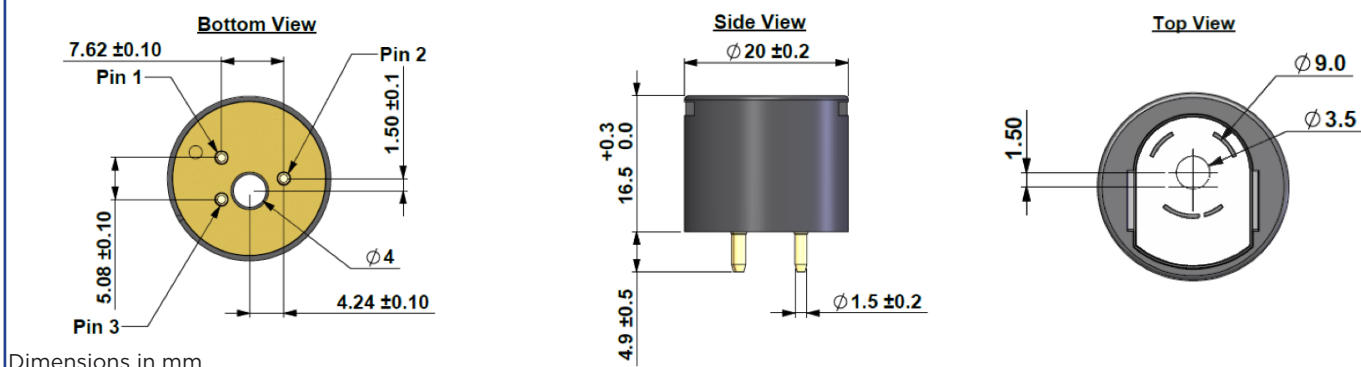
Order Code Intrinsically Safe Supply Voltage

MP3SB7BBU2	✓	3.2V to 3.6V
MP3SB7BCU2	✓	3.6V to 10.0V
MP3SB7BNU2	✗	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	№ EA3C RU C-GB.HA65.B.00635/20

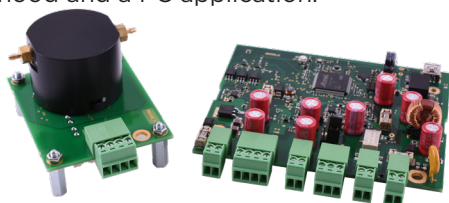
Drawings



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 PPB
- MiniPID 2 HS
- MiniPID 2 10.0 eV

