



MiniPID 2 HS

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

MiniPID 2 HS is designed to detect VOCs at sub ppb concentrations. Detection at these levels can be compromised by contamination from moisture, dust and aerosols. To overcome this, we have developed a world leading, patent pending, filter to protect the ionisation chamber.

Key Features

- 0.5 ppb sensitivity
- 10,000 hours continuous lamp life
- Anti-contamination Design
- Humidity Resistant
- Patent pending filter
- Serviceable Electrode Stack and Lamp
- Intrinsically Safe

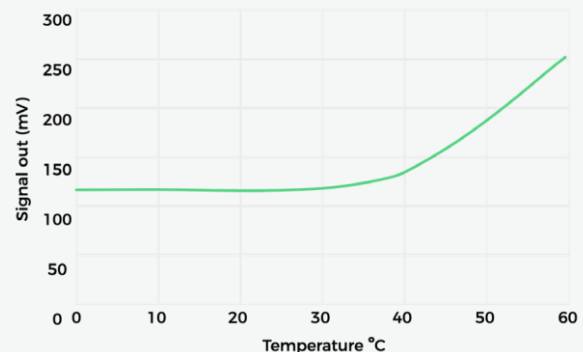
Typical Applications

- Air quality monitoring
- Semiconductor fabrication
- HVAC
- Clean room
- Fertility labs
- Glove boxes



Performance

Electrode Stack Colour	Red
Minimum Detection Limit	0.5 ppb
Range	>3 ppm
T90 Response Time (S)	<12s
Sensitivity	>600 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	0 to 40 °C
Relative Humidity Range	0 - 99% RH (non condensing)

Lifetime & Warranty

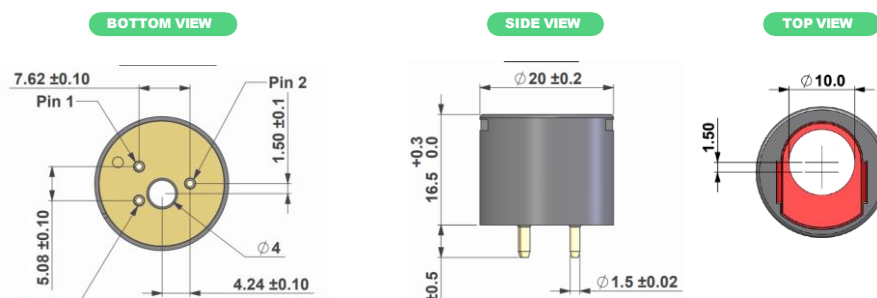
Sensor Life	>5 years
Lamp Life	10,000 hours
Warranty	10.6 eV lamp and MiniPID 2 Body = 12 months

Order Code	Intrinsically Safe	Supply Voltage
MP3SHLHSAU2	✓	3.0V to 3.2V
MP3SHLHSBU2	✓	3.2V to 3.6V
MP3SHLHSCU2	✓	3.6V to 10.0V
MP3SHLHSNU2	✗	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.



Other MiniPID 2 Var

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

