



MiniPID 2 PPM

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

MiniPID 2 PPM is a simple plug-and-play sensor able to deliver a dynamic and dependable response to thousands of volatile organic compounds (VOCs) across many diverse applications.



Key Features

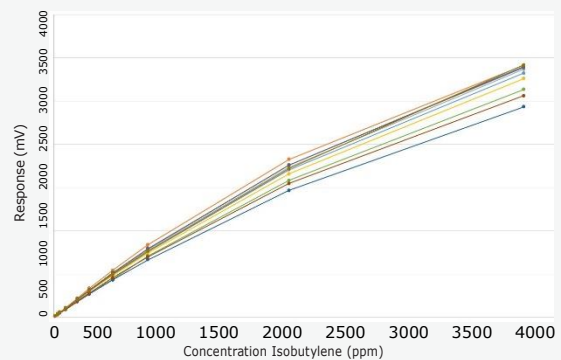
- Wide dynamic range
- Anti-contamination design
- Humidity resistant
- 10,000 hours lamp life
- Lamp out diagnostic
- Serviceable electrode stack and lamp
- Intrinsically safe
- Series 4/A package

Typical Applications

- Industrial health and safety
- Confined space entry
- Soil contamination and remediation
- Leak detection and repair
- Survey
- LEL measurement
- Process control

Performance

| | |
|-------------------------|------------------------|
| Electrode Stack Colour | Blue |
| Minimum Detection Limit | 100 ppb |
| Range | >4,000 ppm |
| T90 Response Time (S) | <3s |
| Sensitivity | >0.65 mV/ppm @ 100 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 3.2 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 |

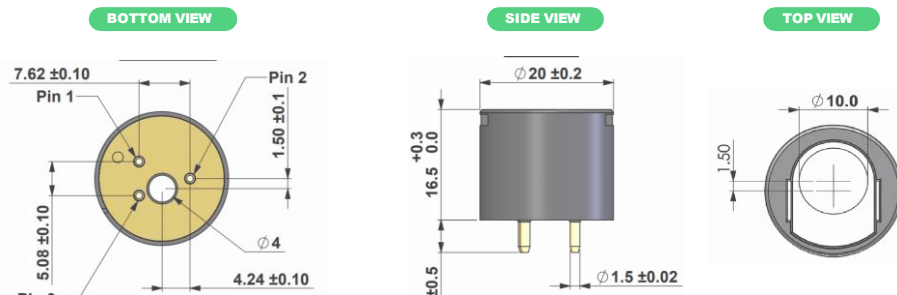
| Order Code | Intrinsically Safe | Supply Voltage |
|------------|--------------------|----------------|
|------------|--------------------|----------------|

| | | |
|------------|---|---------------|
| MP3SMMLAU2 | ✓ | 3.0V to 3.2V |
| MP3SMMLBU2 | ✓ | 3.2V to 3.6V |
| MP3SMMLCU2 | ✓ | 3.6V to 10.0V |
| MP3SMMLNU2 | ✗ | 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 | № 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

