



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

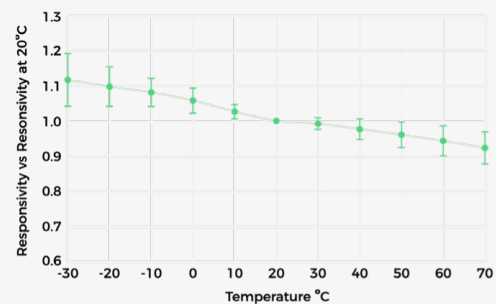
- Wide dynamic range
- Anti-contamination design
- Humidity resistant
- Low cost of ownership
- Serviceable electrode stack and lamp
- Intrinsically safe
- Series 4/A package

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	<8 seconds
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 a regulated power supply)	0 — rail voltage — 0.1 V

Environmental

Temperature range	-40—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

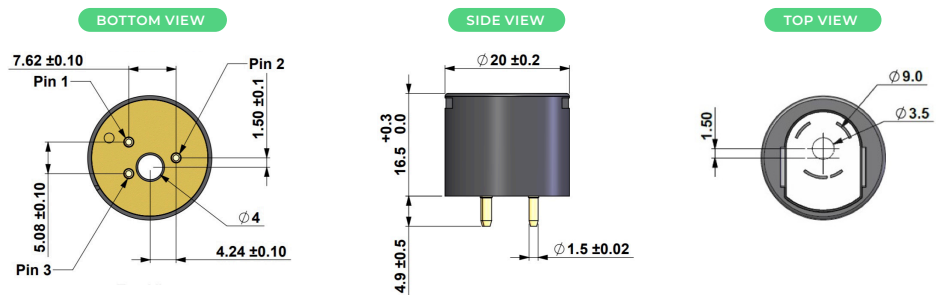
Order Code	Intrinsically Safe	Supply Voltage
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MP3SB7BBU2	✓	3.2—3.6 V
MP3SB7BCU2	✓	3.6—10.0 V
MP3SB7BNU2	✗	3.6—18 V

Approvals

Patents	US 7.046.012 EC 1474681
Europe	ATEX II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1 W
Worldwide	IECEX II 1G Ex ia IIC Ga (-40 °C ≤ Ta ≤ +55 °C) @ 1.1 W
North America	UL913 (8th) Edition Class I, II, III, Division 1 CSA-C22.2 No157-92
Eurasian Customs Union	Nº EA3C RU C-GB.HA65.B.00635/20

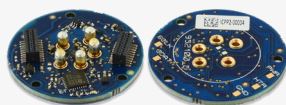
Drawings



ION CONNECT Kit

ION CONNECT supports both UART and I2C communication protocols, allowing flexible integration into a wide range of applications. Associated ION PC software allows you to easily calibrate, set alarm thresholds, set response factors and more.

Optimised for both diffused and impressed flow sampling methods. ION CONNECT Kit is compatible with a dedicated ION GAS HOOD accessory, designed to deliver precise impressed flow to MiniPID 2 and ION SENSE® PID sensors.



ION TRANSMIT Kit

ION TRANSMIT Kit enables long-range communication via RS-485 using Modbus RTU and 4—20 mA allowing connectivity to a wide range of applications. Designed to pair seamlessly with ION CONNECT, this 32 mm PCB transmits all available sensor data over robust, industry-standard protocols.

With its compact form factor and versatile output options, ION TRANSMIT brings enhanced flexibility to your gas sensing setup, making it easy to integrate ION SENSE® sensors even into the most demanding monitoring systems.

