

Titan 2 stands as Ion Science's newest solution for benzene detection, accurately identifying levels from 0.02 ppm to 20 ppm in just 60 seconds. This device, crucial for on-site safety, samples airborne hazards and evaluates purification or vapor recovery units. Enhanced by the MiniPID T2 10.0 eV, it delivers heightened sensitivity and reliability, eliminating interfering gases. Certified for ATEX zones with an IP65-rated enclosure, Titan 2 excels in challenging conditions, ensuring precise performance in dusty or humid environments.

## FEATURES

- **Improved Accuracy:** The new and improved MiniPID T2 10.0 eV Sensor is designed to deliver more reliable results. Easily monitor levels with the clear display and visual alarms.
- **Greater Detection:** Detect benzene as low as 0.02 parts per million (20 parts per billion), samples gas once per minute.
- **Field Ready Protection:** IP65 Ingress Protection, and the internally regulated heating ensures operation in most environmental conditions.
- **Modular Application:** Install the Ex d case in advance, and replace the removable module when servicing is needed, minimizing downtime.
- **Stay Connected:** 4-20mA and RS485 Modbus (ASCII or RTU) capabilities so you can connect to your chosen controller. Internal data storage can be downloaded for analysis.
- **Pumping Precision:** Piezo electric micro pump provides millisecond response and a silent operation.



CALL GEOTECH TODAY

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## Technical Specifications

<b>Sensor Type</b>	MiniPID T2 10.0 eV Sensor
<b>Selectivity</b>	Benzene specific within typical petrochemical matrix
<b>Detectable Range</b>	0.02 ppm - 20 ppm
<b>Measuring Frequency</b>	One Minute
<b>Lower Limit of Detection</b>	0.02 ppm (20 ppb)(10 ppb resolution)
<b>Accuracy</b>	± 50 ppb or ± 10%, whichever is greater*
<b>Temperature Stability</b>	Internally heated
<b>Flow Rate</b>	Sample flow rate ≥ 100 ml/min
<b>Display</b>	Graphical BW LCD 64 x 128 pixels with back light Bright LEDs for normal operation, fault and alarm. Two magnetic switches for menu operation.
<b>Operating Temperature</b>	Recommended operating range of -20 oC to +50 oC ( -4 oF to +122 oF) for optimum performance**
<b>Humidity</b>	0-99%
<b>Weight &amp; Dimensions</b>	15 kg (33 lbs) 219mm x 219mm x 172 mm (8.6" x 8.6" x 6.8" approx.)
<b>Cable Entry</b>	Two 3/4 NPT glad threads
<b>Power Requirements</b>	Vin (nom) 24 V DC @ 3.2 A (recommended) Vin (max) 32 V DC @ 2.4 A Vin (min) 19 V DC @ 4.0 A
<b>Communication</b>	Isolated 4-20 mA output Isolated RS 485 Modbus connection via ASCII or RTU (simplex/half duplex or fully duplex) Micro USB (PC Software)
<b>Data Storage</b>	On board MMC, minimum of six months (2GB)
<b>Relay Output</b>	Two isolated outputs, voltage free, 24 V DC @ 1.25 A
<b>Gas Sample Line</b>	10m max length PTFE 6 mm OD 4 mm ID
<b>Minimum Service Period</b>	6 months – PID lamp, electrode stack, inline filter, VRV restrictor, hydrophobic & carbon filter. 12 months – PID lamp, electrode stack, inline filter, VRV restrictor, hydrophobic & carbon filter and AirSep filter.
<b>Ingress Protection Rating</b>	IP65
<b>Approvals</b>	FTZU 14 ATEX 0172X II 2G Ex db IIB+H2 T4 Gb Tamb. = -20 oC to +55 oC IECEX FTZU 14.0030X Ex db IIB+H2 T4 Gb Tamb. = -20 oC to +55 oC QPS LR1621-1 Ex db IIB+H2 T4 Gb AEx db IIB+H2 T4 Gb Ta=-20 oC to +55 oC

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