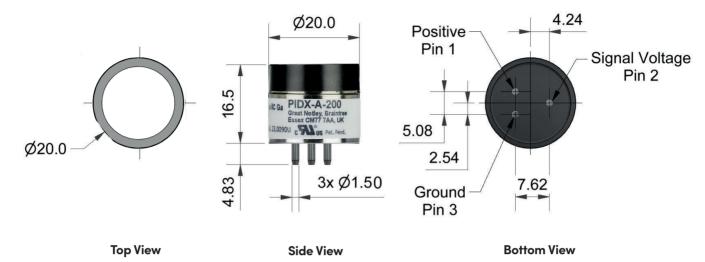
α lphasense

PIDX-A-200 Photo Ionisation Detector



Dimensions are in millimetres (+/- 0.1 mm). Use of socketed connection is required. Soldering or cutting the connection pins may permanently damage the sensor and void the warranty.

| Performance | Target gases Minimum Detection Level (ppb) Linear Range (ppm) Operating Range (ppm) Typical Sensitivity Full Stabilisation Time Warm Up Time Offset Voltage (mV) Response Time (t ₉₀ sec) | VOCs with ionisation potentials < 10.6 eV 10 0-200 0-200 12 mv/ppm ±10% (tested at 100 ppm) 5 minutes 5 seconds 40-75 6.5 |
|--------------------|--|--|
| Electrical | Power Consumption Supply Voltage Output Signal | 92 mW 3.2 to 5.5 VDC 0.040 to 2.85 V |
| Environmental | Temperature Range Temperature Dependence Relative Humidity Range Humidity Sensitivity | -20°C to 60°C Intrinsically safe (-40 to 65°C operating temperature) See chart 0 to 95% non-condensing Near zero (0 to 95% RH) |
| Key Specifications | Operating Life IS Approval | 5 years (excluding replaceable lamp and electrode stack) 2813 x II 1 G Ex ia IIC Ga UL 24 ATEX 3204U UL24UKEX2979U Ex ia IIC Ga IECEx UL 24.0028U (No additional circuitry or external fusing required for intrinsic safety) |
| | Onboard Filter Lamp Electrode Stack Weight Position Sensitivity Warranty Period Patent information | To remove liquids and particulates User Replaceable. Expected life = 10,000 hours User Replaceable <12 grams None Electronics and Housing 12 Months are user replaceable. 10.6 eV lamp typical life 10,000 hours. Patents pending |

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Technical specifications Version 1.0

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Fig. 1 PIDX-A-200 Linearity (0-200 ppm)

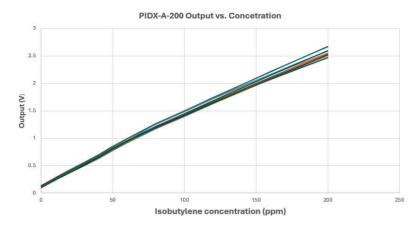


Figure 1 shows the response curve of 20 sensors throughout the entire operating range. Sensors are linear throughout the entire range.

Fig. 2 Sensitivity Temperature Dependence

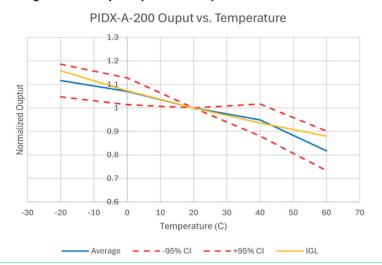


Figure 2 shows the mean and ±95% confidence intervals of the response of the sensors to 100 ppm isobutylene over the entire temperature range. The temperature response follows the ideal gas law.

PIDX-A-200 Replacement Parts/Consumables List

| Part Number | Description | Part Number | Description |
|-------------|-----------------------------------|-------------|---|
| 001-0036-00 | Gas Hood | 001-0048-00 | Maintenance Kit, which includes: 2 ea Polishing Disc |
| 001-0050-00 | Cap with Filter | | Cap with Filter |
| | | | 1 ea Padded Swab |
| 001-0041-00 | Detector Ionisation Cell Assembly | | |
| | | 001-0049-00 | Sensor Rebuild Kit, which includes: |
| 001-0042-00 | 10.6 eV Lamp | | 2 ea 10.6 eV Lamp |
| | | | 1 ea Detector Ionisation Cell Assembly |
| 001-0046-00 | 10.6 eV Lamp Individual Package | | Cap with Filter |
| | | | |

At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions. NOTE: all sensors are tested at ambient environmental conditions unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

In the interest of continued product improvement, we reserve the right to change design features and specifications without prior notification. Please note that the information provided in this Technical Data Sheet is preliminary and subject to change. The data contained in this document is for guidance only. Alphasense Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within.(©ALPHASENSE LTD) Doc. Ref. PIDX-A-200/AUG24

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