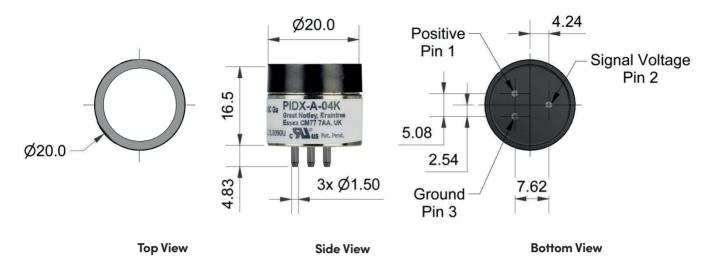
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PIDX-A-04K Photo Ionisation Detector



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 100 0-400 0-4000 1.8 mv/ppm ±10% (tested at 100 ppm) 5 minutes 5 seconds 40-75 3.5	
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 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.	
	Patent Information	Patents pending	

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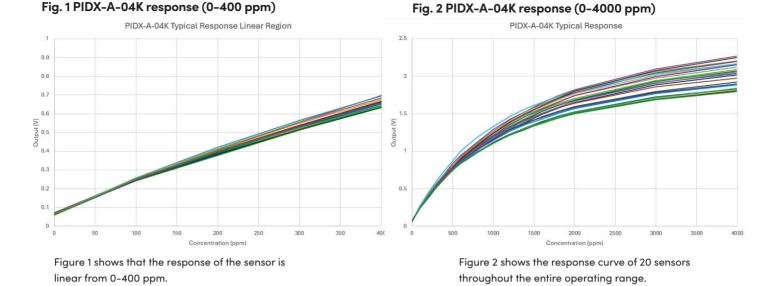


Fig. 3 Sensitivity Temperature Dependence

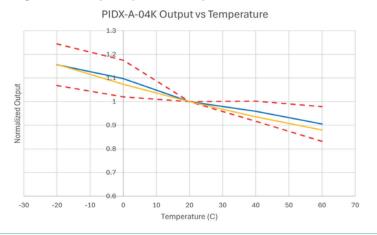


Figure 3 shows the mean and ±95% confidence intervals of the response of the sensors to 30 ppm isobutylene over the entire temperature range. The temperature response follows the ideal gas law.

PIDX-A-04K 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
	1 5		

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-04K/AUG24

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