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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.

User replaceable. Expected life = 10,000 hours

To remove liquids and particulates

Electronics and housing: 12 months

US Pat 6,646,444. Japan Pat 3,793,757

User replaceable

< 8g

None

IECEx Ex ia IIC Ga; ATEX II 1 G Ex ia IIC Ga -20°C < Ta < +60°C

Lamp and electrode stack are user replaceable. 10.6eV lamp: 6,000 lit hours

IS Approval

Lamp

Weight

Onboard filter

Electrode stack

Position sensitivity

Warranty period

Patent information

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PID-A15 Performance Data

Figure 2 Sensitivity Temperature Dependence



Figure 2 shows the temperature dependence, corrected for the gas law.

This data is taken from a typical batch of PID-A15 sensors tested with 100ppm Isobutylene.

The mean and ±95% confidence intervals are shown.

Figure 3 Linearity to Isobutylene



Figure 3 shows the response curve of 20 sensors throughout the entire operating range. PID output is nonlinear at higher concentrations but is repeatable and can be corrected in software.

Table 1: PID Replaceable Parts/Consumables List

Part Number	Description	Part Number	Description
001 -003	Gas Hood	001-0043-00	Maintenance Kit, which includes: 2 ea Polishina Disc
001-0037-00	Cap with Key		2 ea 10 µm, Cloth, Bottom Filter 2 ea 1 um, Teflon, Top Filter, Large
001-0038-00	Spacer		1 ea Padded Swab
001-0039-00	1 µm, Teflon, Top Filter, Large	001-0044-00	Sensor Rebuild Kit, which includes: 2 ea 10.6 eV Lamp
001-0040-00	10 µm, Cloth, Bottom Filter		1 ea Detector Ionisation Cell Assembly
001-0041-00	Detector Ionisation Cell Assembly		1 ea 10 μm, Cloth, Bottom Filter
001-0042-00	10.6 eV Lamp	001-0045-00	Lamp Cleaning Kit
001-0046-00	10.6 eV Lamp Individual Package	001-0047-00	Fast Response 0 to 2000 ppm sensor

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.

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