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## Alphasense Product News Release

### Making Life Safer for Asthmatics in the Work Place

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Alphasense announces the introduction of a new range of miniature gas sensors with performance characteristics that meet the requirements of the latest changes in the British Health and Safety Executive's standards on exposure to Nitrogen Dioxide and Chlorine gas. The maximum allowable exposure for these two gases is now 1 ppm (part per million) and previous published Time Weighted Average and Short Term Exposure Limits have been withdrawn by HSE.

HSE's action is the result of a growing awareness of the effects of even low concentrations of these gases on asthma sufferers. At concentrations exceeding 1 ppm, irritation to the lungs can lead to asthma attack in asthmatics. The change in regulations will lead to an increasing demand for personal protection instrumentation to ensure that industries comply with the new exposure limit requirements.



The "D Series" Nitrogen Dioxide and Chlorine sensors at 14.5mm (diameter) x 8.4mm (height), allow portable gas monitor manufacturer to design small personal usage instrumentation. These sensors do not require power, so can be used in products using button batteries to give protection for extended periods of time.

Previously available Chlorine and Nitrogen Dioxide sensors are proving inadequate for this application due to severe changes to the base line (zero gas) signal on exposure to transient changes in relative humidity. These changes in base line can be as high as 5 or 6 ppm equivalent gas concentration that, in the absence of the target gas, would trigger a false alarm.

The Alphasense CL2-D1 and NO2-D1 miniature sensors overcome this condition and the base line remains well below 1 ppm when exposed to step changes of 90% in relative humidity levels. The sensors are also resistant to exposure to exhaled breath that in other offerings has a severe effect on base line output.

The use of Alphasense sensors will lead to better protection of asthmatic and normally healthy employees who are currently exposed to unsafe levels of Chlorine and Nitrogen Dioxide.

Other sensors available in this Family are Carbon Monoxide and Hydrogen Sulfide and the new and unique D2 (Patents Pending), dual gas sensor for Carbon Monoxide and Hydrogen Sulfide in one miniature package.

**END**

Colour Photograph to be extracted from existing photos;

*Please contact Hugh Feldman for further information*

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