



INTERNATIONAL GAS DETECTORS

Document Ref: OIGD193 V10

TRITON HOUSE

Crosby Street

Stockport

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www.internationalgasdetectors.com

| GAS TYPE | CHEMICAL FORMULA | FIRST ALARM LEVEL | SECOND ALARM LEVEL | THIRD ALARM LEVEL (OPTIONAL) | STANDARD RANGE |
|----------------------------|------------------|-------------------|--------------------|------------------------------|----------------|
| FLAMMABLE | CxHx | 10% LEL | 20% LEL | 40% LEL | 0-100% LEL |
| OXYGEN | O2 | 19.5% VOL | 18.5% VOL | 23% VOL** | 0-25% VOL |
| CARBON MONOXIDE* | CO | 20 PPM | 55PPM | 100PPM | 0-100 PPM |
| HYDROGEN SULPHIDE | H2S | 5 PPM | 10PPM | Optional | 0-50 PPM |
| SULPHUR DIOXIDE* | SO2 | 0.5 PPM | 1PPM | Optional | 0-5 PPM |
| CHLORINE | CL/CL2 | 0.2 PPM | 0.5PPM | Optional | 0-5 PPM |
| NITROGEN DIOXIDE* | NO2 | 0.5 PMM | 1PPM | Optional | 0-5 PPM |
| NITRIC OXIDE* | NO | 2 PPM | 5PPM | Optional | 0-5 PPM |
| NITROUS OXIDE* | N2O | 100 PPM | 200PPM | Optional | 0-1000 PPM |
| HYDROGEN CYANIDE* | HCN | 0.9 PPM | 4.5PPM | Optional | 0-10 PPM |
| AMMONIA | NH3 | 25 PPM | 35PPM | Optional | 0-100 PPM |
| HYDROGEN CHLORIDE | HCL | 1PPM | 5PPM | Optional | 0-10 PPM |
| OZONE | O3 | 0.1PPM | 0.2PPM | Optional | 1 PPM |
| CARBON DIOXIDE | CO2 | 2800PPM | 4500PPM | Optional | 0-5000 PPM |
| CARBON DIOXIDE | CO2 | 0.5% VOL | 1.5% VOL | Optional | 0-5% VOL |
| FORMALDEHYDE | CH2O | 1PPM | 2PPM | Optional | 0-5 PPM |
| BORON TRICHLORIDE * | BCL3 | 0.5 PPM | 1PPM | Optional | 0-10 PPM |
| ETHYLENE OXIDE* | C2H4O | 1 PPM | 5PPM | Optional | 0-10 PPM |
| HYDROGEN FLUORIDE | HF | 1.8PPM | 3PPM | Optional | 0-10 PPM |
| HYDROGEN | H2 | 500 PPM | 1000PPM | Optional | 0-1000 PPM |
| SILANE | SIH4 | 0.5 PPM | 1PPM | Optional | 0-10 PPM |
| VOLATILE ORGANIC COMPOUNDS | VOC | *** | *** | Optional | |

**Note; Oxygen enrichment is also a hazard with a normal alarm point at 23% VV

These alarm levels are used where clients do not request their own preferred alarm levels when commissioning systems. These are in accordance to DSEAR, HSE EH 40 and MSDS datasheets.

***New alarm levels as of January 2019, in accordance to EH 40. The above alarm levels are standard alarm levels when cause and effect are not given.**



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|----------------------|-------------------------------|-------------------|--------------------|------------------------------|----------------|
| CHLORINE DIOXIDE | CLO ₂ | 0.1PPM | 0.3 PPM | Optional | 0-1PPM |
| FLUORINE | F ₂ | 0.5 PPM | 1 PPM | Optional | 0-1PPM |
| HYDROGEN PEROXIDE | H ₂ O ₂ | 1PPM | 2 PPM | Optional | 0-10 PPM |
| HYDROGEN BROMIDE | HBr | 1PPM | 3 PPM | Optional | 0-20 PPM |
| PHOSPHINE | PH ₃ | 0.1PPM | 0.2 PPM | Optional | 0-5 PPM |
| SULPHUR HEXAFLUORIDE | SF ₆ | 500 PPM | 1000 PPM | Optional | 0-1000 PPM |
| CARBON DISULPHIDE | CS ₂ | 5 PPM | 10 PPM | - | 0-10 PPM |

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***** Alarm Levels for VOC gases is 10%, 20% and 50% of nominal range**