



# GAS AREA AND POSITIONING

## TOXIC

| GAS               |                  | AREA         |                    | LOCATION                       |
|-------------------|------------------|--------------|--------------------|--------------------------------|
| Ammonia           | NH <sub>3</sub>  | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet below ceiling |
| Carbon Monoxide   | CO               | 7500 sq. ft. | 775 M <sup>2</sup> | 3.0 to 6.0 feet above floor    |
| Chlorine          | CL <sub>2</sub>  | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Chlorine Dioxide  | CLO <sub>2</sub> | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Hydrogen          | H <sub>2</sub>   | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet below ceiling |
| Hydrogen Chloride | HCL              | 5000 sq. ft. | 525 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Hydrogen Cyanide  | HCN              | 5000 sq. ft. | 525 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Hydrogen Sulphide | H <sub>2</sub> S | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Nitric Oxide      | NO               | 7500 sq. ft. | 775 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Nitrogen Dioxide  | NO <sub>2</sub>  | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Oxygen            | O <sub>2</sub>   | 7500 sq. ft. | 525 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Ozone             | O <sub>3</sub>   | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet below ceiling |
| Sulphur Dioxide   | SO <sub>2</sub>  | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |

## COMBUSTIBLES

| GAS       |                               | AREA         |                    | LOCATION                       |
|-----------|-------------------------------|--------------|--------------------|--------------------------------|
| Acetylene | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Diesel    | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Ethane    | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | 4.0 to 6.0 feet above floor    |
| Gasoline  | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| Hydrogen  | H <sub>2</sub>                | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet below ceiling |
| Methane   | CH <sub>4</sub>               | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet below ceiling |
| Propane   | C <sub>3</sub> H <sub>8</sub> | 7500 sq. ft. | 775 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| N-Butane  | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| N-Octane  | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |
| N-Pentane | ----                          | 5000 sq. ft. | 525 M <sup>2</sup> | .50 to 1.50 feet above floor   |

## INFRARED / REFRIGERANTS

| GAS          | AREA                            | LOCATION           |
|--------------|---------------------------------|--------------------|
| Refrigerants | 7500 sq. ft. 775 M <sup>2</sup> | 1 foot above floor |

## NDIR SENSOR

| GAS                            | AREA                            | LOCATION                    |
|--------------------------------|---------------------------------|-----------------------------|
| Carbon Dioxide CO <sub>2</sub> | 7500 sq. ft. 775 M <sup>2</sup> | 4.0 to 6.0 feet above floor |

Area coverage is under ideal conditions and subject to change (decrease) for various reasons.

The presence of walls, cavities, floor or ceiling openings between levels etc. all affect the quantity and placement of sensors. The presence of air inlets, exhaust fans, general turbulence or dead air zones all affect the quantity and placement of sensors. The likelihood of gas leaks or infiltration as well as potential point of entry or emission all affect the quantity and placement of sensors. The intended use of the area, is it to be occupied or storage, subject to air changes etc.



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Automation Components, Inc.

