



All-in-One Open Path Gas Detection

Complete analyzer in a compact field device

Speed of Response

1 second results with no cross sensitivity

No Calibration or Bump Test Required

Automatic health and calibration check

Free of consumables

Reduce maintenance time and costs

More gas ranges available. Common industry alarm thresholds, exact alarm setpoints should be determined by the end user.

#1 - Select your Target Gas

HF

Hydrogen Fluoride

Lo-Range: 0.4-250 ppm-m
Hi-Alarm: 3 ppm
HiHi-Alarm: 9 ppm

H₂S

Hydrogen Sulfide

Lo-Range: 100-100,000 ppm-m
Hi-Alarm: 10 ppm
HiHi-Alarm: 40 ppm

NH₃

Ammonia

Lo-Range: 8-6,500 ppm-m
Hi-Alarm: 25 ppm
HiHi-Alarm: 50 ppm

CO₂

Carbon Dioxide

Hi-Range: 1,000-500,000 ppm-m
Hi-Alarm: 20,000 ppm
HiHi-Alarm: 30,000 ppm

CO

Carbon Monoxide

Hi-Range: 250-500,000 ppm-m
Hi-Alarm: 100 ppm
HiHi-Alarm: 200 ppm

CH₄

Methane

Hi-Range: 100-500,000 ppm-m
Hi-Alarm: 1 LEL-m
HiHi-Alarm: 3 LEL-m

HCN

Hydrogen Cyanide

Lo-Range: 8-2,500 ppm-m
Hi-Alarm: 4.7 ppm
HiHi-Alarm: 10 ppm

HCl

Hydrogen Chloride

Lo-Range: 2-2,500 ppm-m
Hi-Alarm: 2 ppm
HiHi-Alarm: 5 ppm

C₂H₄

Ethylene

Lo-Range: 0-5,000 ppm-m
Hi-Alarm: 20% of LEL-m
HiHi-Alarm: 40% of LEL-m

#2 - Select your Path Length

Short-Path (IMOS)

Suggested Path Length: 5-20 m (15-65 ft)

Medium-Path (Wafer)

Suggested Path Length: 20-50 m (65-165 ft)

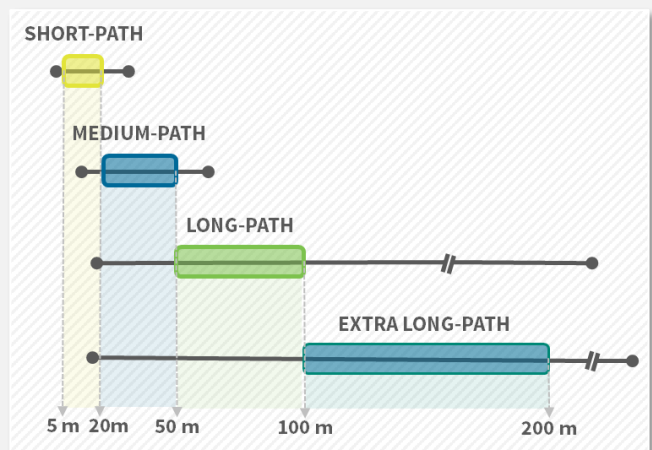
Long-Path (Cornercube)

Suggested Path Length: 50-100 m (165-330 ft)

Extra Long-Path (Cornercube)

Suggested Path Length: 100-200 m (330-650 ft)

Suggested Path Length: Consideration has been given to optimizing the ability to obtain & maintain optical alignment.



#3 – Mounting Height/Structure

Suggested Mount Size for Short-Path

>4" Post @ 7' Height or >6" Post @ 13' Height

Suggested Mount Size for Medium-Path

>6" Post @ 7' Height and >8" Post @ 13' Height

Suggested Mount Size for Long-Path

>8" Post @ 7' Height and >10" Post @ 13' Height

Suggested Mount Size for Ultra Long-Path

>10" Post @ 7' Height and >12" Post @ 13' Height

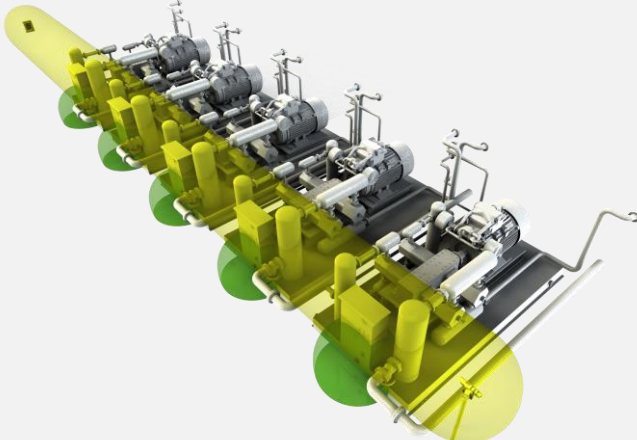
Suggested Mounting Structure: End-User to confirm the Mechanical Suitability with their own Geo-Technical and Wind-Loading Study.

Laser Based – Open Path Gas Detection is typically mounted at a height between **2m (7ft) - 4m (13ft)**.



Reference: Center for Chemical Process Safety – Continuous Monitoring for Hazardous Releases

#4 – Optimize Installation



The need for numerous point detectors (green) can be eliminated with a single GasFinder-LoS (yellow).

Increase your Probability of Detection

With area and perimeter monitoring strategies

Detector Placement Relative to Source

Multiple sources covered with single path

Gas Dispersion and Movement

Air currents dictate plume direction and size

Beware of Potential Optical Obstructions

Such as cranes, forklifts, trucks, people, etc.

#5 – Power + Communication

3 or 4 Wire 24 VDC Device

Polarity protected and internally fused

Analog, Relay, and MODBUS

HART7 4-20mA , dry contact relay, RS-485

Wireless Configuration

Configuration via wired handheld HMI (optional)

Continuous Onboard Logging

USB accessible data storage

