

PROTECTING INDUSTRIAL APPLICATIONS: THE OMNIPOINT™ TRANSMITTER

Application Note

The OmniPoint™ transmitter is a comprehensive gas detection solution designed to operate in hazardous locations and support multiple sensor operations in detecting toxic, oxygen, and flammable gas hazards.

OVERVIEW

When working with gases, each industry has its own environmental challenges and is committed to ensuring the safety of their workforce and facilities. To help meet these safety and detection needs, Honeywell's OmniPoint™ transmitter is a comprehensive solution.

The OmniPoint™ transmitter maximizes flexibility and reduces installation cost through multiple sensor and configuration options. This value is supported by maximum two sensor modules – XP and/or XPIS – and one Optima Plus detector.



OMNIPOINT™ CONFIGURATION



Honeywell

GASES AND MEASURING RANGES

AVAILABLE GASES AND SELECTABLE SENSOR MEASURING RANGES

GASES	FORMULA	SELECTABLE SENSOR MEASURING RANGES	SENSOR TYPE
Flammable	Various	0-100 % LEL (100 % LEL default)	Catalytic Bead
Methane	CH ₄	0-100 % LEL (100 % LEL default)	IR Sensor
Propane	C ₃ H ₈	0-100 % LEL (100 % LEL default)	IR Sensor
Hydrogen Sulphide L	H ₂ S	0-50 ppm (15 ppm default)	Electrochemical
Hydrogen Sulphide H	H ₂ S	0-500 ppm (100 ppm default)	Electrochemical
Oxygen	O ₂	0-25 % V/V (fixed)	Electrochemical
Ammonia L	NH ₃	0-200 ppm (200 ppm default)	Electrochemical
Ammonia H	NH ₃	0-1000 ppm (1000 ppm default)	Electrochemical
Sulphur Dioxide	SO ₂	0-20 ppm (15 ppm default)	Electrochemical
Carbon Monoxide	CO	0-500 ppm (300 ppm default)	Electrochemical
Chlorine	CL ₂	0-5 ppm (fixed)	Electrochemical

Note: For complete details refer to specification sheet.

EXAMPLE OF TYPICAL INDUSTRIAL APPLICATIONS WHERE MULTIPLE GASES CAN OCCUR IN ONE PLACE AND NEED TO BE DETECTED*

OIL & GAS

GASES
Process areas
Shelters
LPG storage areas
LNG processes

GASES

LEL, H ₂ S, O ₂
LEL, H ₂ S, O ₂
LEL
LEL, CO ₂ , H ₂ S



CHEMICAL PLANTS

GASES
Flanges, compressor pump seals
Storage, handling or transporting of feedstocks
Hydrocarbon cracking processes
Process areas
Laboratories

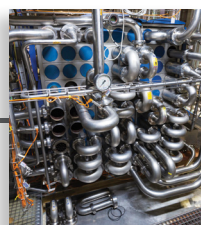
LEL
LEL, Cl ₂ , H ₂ S, NH ₃
LEL, CO
LEL, H ₂ S, SO ₂ , CO, NH ₃
LEL, H ₂ S, NH ₃

WASTEWATER TREATMENT PLANT

GASES
Bar screening area
Wet/dry well for lift/pump stations
Sewage pipes & valves
Digester tanks & processes
Sludge de-watering
Disinfection storage rooms

GASES

LEL, H ₂ S, CO
LEL, H ₂ S, O ₂ , CO
LEL, H ₂ S, SO ₂ , CO
LEL, H ₂ S, SO ₂ , CO
LEL, H ₂ S, SO ₂ , CO
CO ₂ , NH ₃



POWER GENERATION

GASES
Coal Power Plant
Transportation, handling, processing, & storages areas
Pulverization
Flue gas cleaning process (NH ₃ to remove NO _x)
Burning & cleaning processes
Tunnels, bunkers
Generic Power Plant
Gas turbine/burner
Nuclear power plant
Geothermal

LEL, CO
LEL
NH ₃
SO ₂ , CO
CO
LEL, CO, O ₂
H ₂
LEL, H ₂ S, NH ₃

REFINERIES

GASES
Catalytic cracking processing
Bulk storage areas
Loading areas

GASES

LEL, H ₂ S
LEL, H ₂ S
LEL



PHARMA

GASES
Dryers & ovens
Laboratories

O ₂ , CO, H ₂ S
CO, O ₂ , NH ₃

* Other gases might occur in the application and need additional protection. Also needs may vary from application to application, please discuss the specific requirements which the user before offering the solution.

For more information

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