

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



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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

Process areas	GASES
Process areas	LEL, H ₂ S, O ₂
Shelters	LEL, H ₂ S, O ₂
LPG storage areas	LEL
LNG processes	LEL, CO ₂ , H ₂ S

CHEMICAL PLANTS

Process areas	GASES
Flanges, compressor pump seals	LEL
Storage, handling or transporting of feedstocks	LEL, Cl ₂ , H ₂ S, NH ₃
Hydrocarbon cracking processes	LEL, CO
Process areas	LEL, H ₂ S, SO ₂ , CO, NH ₃
Laboratories	LEL, H ₂ S, NH ₃

WASTEWATER TREATMENT PLANT

Process areas	GASES
Bar screening area	LEL, H ₂ S, CO
Wet/dry well for lift/pump stations	LEL, H ₂ S, O ₂ , CO
Sewage pipes & valves	LEL, H ₂ S, SO ₂ , CO
Digester tanks & processes	LEL, H ₂ S, SO ₂ , CO
Sludge de-watering	LEL, H ₂ S, SO ₂ , CO
Disinfection storage rooms	CO ₂ , NH ₃

POWER GENERATION

Process areas	GASES
Coal Power Plant	
Transportation, handling, processing, & storages areas	LEL, CO
Pulverization	LEL
Flue gas cleaning process (NH ₃ to remove NO _x)	NH ₃
Burning & cleaning processes	SO ₂ , CO
Tunnels, bunkers	CO
Generic Power Plant	
Gas turbine/burner	LEL, CO, O ₂
Nuclear power plant	H ₂
Geothermal	LEL, H ₂ S, NH ₃

REFINERIES

Process areas	GASES
Catalytic cracking processing	LEL, H ₂ S
Bulk storage areas	LEL, H ₂ S
Loading areas	LEL

PHARMA

Process areas	GASES
Dryers & ovens	O ₂ , CO, H ₂ S
Laboratories	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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