PROTECTING INDUSTRIAL APPLICATIONS: THE OMNIPOINT™ TRANSMITTER

Application Note

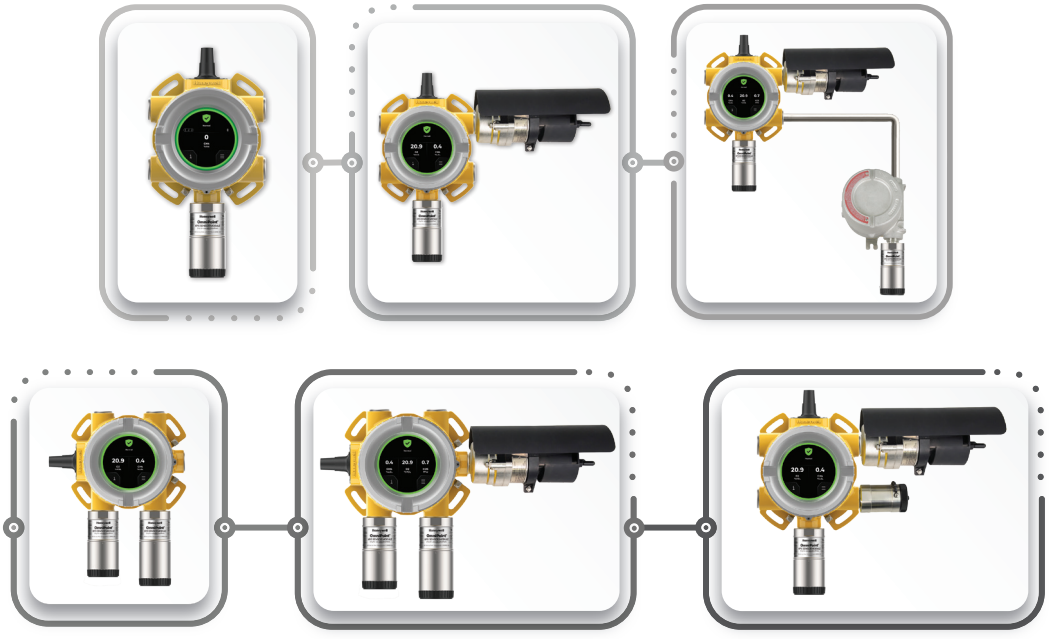
The OmniPoint™ transmitter is a comprehensive gas detection solution designed to operate in hazardous locations and support multiple sensor operations in detecting toxic, oxygen, and flammable gas hazards.

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, the Honeywell 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_3H_8	0-100 % LEL (100 % LEL default)	IR Sensor
Hydrogen Sulphide L	H_2S	0-50 ppm (15 ppm default)	Electrochemical
Hydrogen Sulphide H	H_2S	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

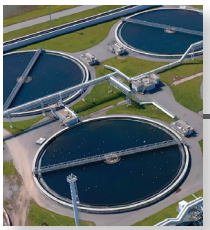
Note: For complete details refer to specification sheet.

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

OIL & GAS	GASES
Process areas	LEL, H_2S, O_2
Shelters	LEL, H_2S, O_2
LPG storage areas	LEL
LNG processes	LEL, CO_2, H_2S

WASTEWATER TREATMENT PLANT	GASES
Bar screening area	LEL, H_2S, CO
Wet/dry well for lift/pump stations	LEL, H_2S, O_2, CO
Sewage pipes & valves	LEL, H_2S, SO_2, CO
Digester tanks & processes	LEL, H_2S, SO_2, CO
Sludge de-watering	LEL, H_2S, SO_2, CO
Disinfection storage rooms	CO_2, NH_3

REFINERIES	GASES
Catalytic cracking processing	LEL, H_2S
Bulk storage areas	LEL, H_2S
Loading areas	LEL



CHEMICAL PLANTS	GASES
Flanges, compressor pump seals	LEL
Storage, handling or transporting of feedstocks	LEL, Cl_2, H_2S, NH_3
Hydrocarbon cracking processes	LEL, CO
Process areas	LEL, H_2S, SO_2, CO, NH_3
Laboratories	LEL, H_2S, NH_3

POWER GENERATION	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_2S, NH_3

PHARMA	GASES
Dryers & ovens	O_2, CO, H_2S
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.

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