

HONEYWELL OMNIPOINT™

Next Generation Gas Detection

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

PROTECTING YOUR WORKERS AND YOUR ENTERPRISE

OmniPoint™ utilizes multiple sensor technologies to meet diverse gas detection challenges in a variety of global industries. Full color, touch key interface and Bluetooth® enabled operation make setup and maintenance intuitive.

Support for up to three sensors makes OmniPoint™ both flexible and scalable to meet your safety requirements.

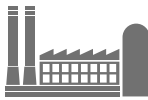


FEATURES AND BENEFITS



TOUCH KEY USER INTERFACE

- Easy to operate and maintain
- Intuitive configuration and reduced set up time
- No magnet is required
- Monitor up to three sensors from the same flexible transmitter
- Universal electronics module
- Accepts different sensor inputs and simplifies ordering and stocking process



TYPICAL APPLICATIONS INCLUDE

- Power generation
- Hydrogen storage
- Oil and gas refineries
- Chemical and petrochemical plants
- Onshore oil and gas terminals
- Gas transmission (LNG)
- Utilities and wastewater



BLUETOOTH CONNECTIVITY

- Optional BLE app for configuration and maintenance plain text on the full colored display
- Information is presented in an easy to read and understand format with call-to-action instructions
- No need to refer to the manual



GLOBAL APPROVALS

- European, US and Canadian
- Compliant with and certified to ATEX, UL and CSA standards

OMNIPOINT™ Technical Specifications

GENERAL SPECIFICATIONS	
Description	The OmniPoint™ transmitter is a comprehensive gas detection solution designed to operate in hazardous locations and support multiple sensors in the detection of toxic, oxygen, and flammable gas hazards.
Material	Enclosure: Five-coat marine finish painted aluminum alloy or 316 stainless steel
Weight	Transmitter (enclosure only): Aluminum alloy: 2.45 kg (5.40 lb). 316 stainless steel: 5.37 kg (11.84 lb) Transmitter with display module: Aluminum alloy: 2.92 kg (6.44 lb). 316 stainless steel: 5.84 kg (12.88 lb) XPIS sensor module with cartridge: 0.80 kg (1.76 lb) XP sensor module with cartridge: 0.69 kg (1.52 lb)
Mounting	Can be mounted to flat wall surfaces of various types or to pipes using the optional pipe mount kit. The pipe mount kit allows the transmitter to be mounted to pipes from 2 inches to 6 inches (50 mm to 140 mm) in diameter and includes the pipe mount bracket, carriage bolts, nuts, and lock washers. The transmitter is configured with four cable/conduit ports built into the housing for wiring and mounting sensors.
Cable Entries	Four conduit/cable entries (two right, two left, one bottom). Entry size M25 or 3/4 inch NPT One top entry (M22) for optional Bluetooth antenna
ENVIRONMENTAL	
IP Rating	IP66/IP67 in accordance with IEC/EN 60529. NEMA 4X
Operating Temperature	-55°C to 75°C (-67°F to 167°F)
Operating Humidity	0 % to 99 %RH (non condensing)
Operating Pressure	90 kPa to 110 kPa
Storage Conditions	-55°C to 75°C (-67°F to 167°F), 0 % to 99 %RH (non-condensing)
ELECTRICAL	
Input Voltage Range	12 Vdc to 32 Vdc (24 Vdc Nominal) (Catalytic or IR) and XPIS (Electrochemical) sensors and 18 Vdc to 32 Vdc (24 Vdc Nominal) Optima
Power Consumption	Transmitter : Normal 4.5 watts, Max 8.5 watts XPIS sensor (EC cell) : Max 0.3 watts XP sensor (Catalytic or IR cell) : Max 1.7 watts Max consumption is 17W for Optima + 2 XP (CB) Sensors
Visual	3 inch (76 mm) circular high resolution, full color, TFT display Four capacitive touch keys that provide navigation and other functions. LED ring indicator surrounding the 3 in (76 mm) circular display indicates the device status. (Normal operation: Green, Alarm: Red, Fault/Warning: Yellow, Bluetooth® communication: Blue)
Current Output	3 channels of fully configurable 4 mA to 20 mA providing current sink, current source and isolated modes of operation to support up to 3 sensors simultaneously. Note : OmniPoint will automatically detect whether it should operate in current sink or current source mode Default current output settings: 1.0 mA for fault 2.0 mA for warm-up and inhibit 3.0 mA for warning 4.0 to 20.0 mA for normal gas measurement 21.0 mA for maximum over range 4 mA to 20 mA signal accuracy : ±1 % full scale
HART® Communication	Provides HART® communication over 1st channel of 4 mA to 20 mA output compliant with HART® 7 Configurable HART® communication mode: P to P mode or Multi-drop mode (up to 8 multidrops) Functions Supported by HART® Gas reading with gas name and units of measurement 4 mA to 20 mA signal level General/device information Configuration Forcing of 4 mA to 20 mA output Detailed transmitter information (calibration and configuration status, detailed fault and warning information, fault and alarm history) Detailed sensor information (supply voltage, temperature and serial number)
Relays	Provides three fully user configurable relay outputs that are activated based on current alarm state and one fault relay that is normally energized. Provides 3 x SPDT alarm and 1 x SPDT fault relay Maximum : 250 VAC, 5A / 24 VDC, 5A (Resistive Loads Only)
CERTIFICATION	
Hazardous Area Approvals	UL cUL classified: UL 1203, UL 913, UL 61010-1, CSA C22.2 No. 25, CSA 22.2 No. 30, CSA C22.2 No. 60097-11, CSA 22.2 No. 60079-0, CAN/CSA-C22.2 No. 61010-1-12 Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups F & G ATEX UL 23 ATEX 2903 Rev. 0 (Pending) IEC 60079-0, 7th Ed; IEC 60079-1, 7th Ed; IEC 60079-11 6th Ed.; IEC 60079-31, 3rd Ed.; IECEx UL 23.0011 Issue 0 (Pending)
Performance Approvals Flammable Gas	Pending

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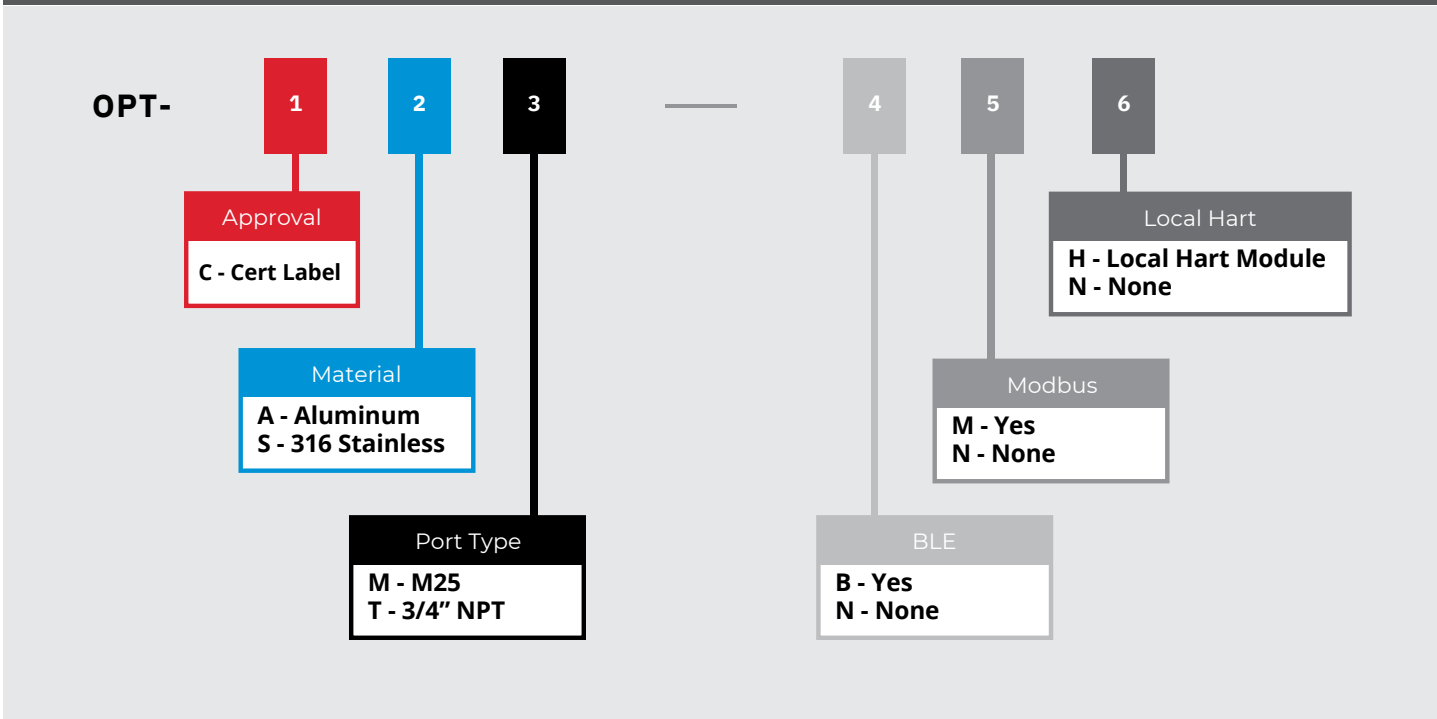
WIRELESS COMMUNICATION -	
Description	The BLE connection enables wireless communication of the OmniPoint transmitter to a smartphone or tablet.
Installation	Optional BLE module is independent of the main (display) module. The external antenna must be installed with the BLE module.
Mode and Version	Bluetooth point to point mode BLE 5.0
Distance	Up to 66 ft (20 m) (mobile device dependant)
Approval	Certified and registered Bluetooth SIG. FCC, RED, IC
Function Supported	Gas reading with gas name and units of measurement General/device information Remote zero and span calibration Configuration Forcing of 4 mA to 20 mA output Detailed transmitter information (Instrument status, detailed fault and warning information, fault and alarm history) Detailed sensor information (optical signal level, supply voltage, temperature, calibration & configuration status)
MODBUS RTU MODULE (OPTIONAL)	
Description	The Modbus output module provides an isolated RS485 output to enable the connection of the OmniPoint transmitter to a multi-drop Modbus network.
Installation	As an optional module independent of the main (display) module, it can be installed in the factory or in the field.
Connections	RS485+, RS485-, Drain
Physical Layer	Isolated RS485, 2400 to 57,6000 baud; 9,600 default
Address	Address range is 1 to 247
Maximum # of Nodes	247; up to 32 RTUs per loop
Protocol	Modbus RTU
Function Supported	Gas reading with gas name and units of measurement General/device information Detailed transmitter information (Instrument status, detailed fault and warning information, fault and alarm history) Detailed sensor information (supply voltage, temperature, calibration & configuration status)
WIRING REQUIREMENTS	
Sensor	Two-wire, for XPIS Sensor module up to (984 ft) 300 m Two-wire, for XP Sensor module up to (984 ft) 300 m Refer to manual for mounting distances and wire gauge
GAS CONCENTRATION DISPLAY & INTERFACE	
Instrument	3inch TFTdisplay with ring indicator, five-digit alphanumeric characters with separate units, touch key interface, alarm snapshot with gas trend
Remote	Local UI or BLE 5.0 enabled device via OmniPoint app
WARRANTY	
Transmitter	5 years
Sensor Cartridge	

PART NUMBER	DESCRIPTION	WARRANTY PERIOD
OPT-RIX-FL1	Sensor Cart, Cat CH4 0-100%LEL, 5%	3 years
OPT-RIX-FL2	Sensor Cart, Cat CH4 0-100%LEL, 4.4%	3 years
OPT-RIS-HS1	Sensor Cart, H2S 0-15.0ppm, 5ppm	3 years
OPT-RIS-HS2	Sensor Cart, H2S 0-100ppm, 20ppm	3 years
OPT-RIS-OX1	Sensor Cart, O2 0-25% v/v, 23.5%	3 years
OPT-RIS-CO1	Sensor Cart, CO 0-300ppm, 100ppm	3 years
OPT-RIX-ME1	Sensor Cart, IR CH4 0-100%LEL, 5%	3 years
OPT-RIX-ME2	Sensor Cart, IR CH4 0-100%LEL, 4.4%	3 years
OPT-RIX-PR1	Sensor Cart, IR C3H8 0-100%LEL, 2.1%	3 years
OPT-RIX-PR2	Sensor Cart, IR C3H8 0-100%LEL, 1.7%	3 years
OPT-RIS-AM1	Sensor Cart, NH3 0-200ppm, 50ppm	1 year
OPT-RIS-AM2	Sensor Cart, NH3 0-1000ppm, 200ppm	1 year
OPT-RIS-CL1	Sensor Cart, CL2 0-5.0ppm, 1ppm	1 year

OMNIPOINT SENSOR SPECS

SensorType	Gas	CartridgeP/N	Selectable Full Scale Range	Default Range	Steps	Resolution	Lower Detectable Limit (LDL)	Lowest Alarm Level (LAL)	Default Alarm 1 Level	Alarm 1 Type	Default Alarm 2 Level	Alarm 2 Type	Operating Temperature
XPIS SENSOR													
NH ₃ (Low)	Ammonia	OPT-R1S-AM1	50 ppm to 200 ppm	200 ppm	50 ppm	1 ppm	6 ppm	20 ppm	50 ppm	Rising	100 ppm	Rising	-20°C to 40°C -4°F to 104°F
NH ₃ (High)	Ammonia	OPT-R1S-AM2	200 ppm to 1000 ppm	1000 ppm	50 ppm	1 ppm	30 ppm	100 ppm	200 ppm	Rising	500 ppm	Rising	-20°C to 40°C -4°F to 104°F
CO	Carbon Monoxide	OPT-R1S-CO1	100 ppm to 500 ppm	300 ppm	100 ppm	1 ppm	5 ppm	15 ppm	100 ppm	Rising	200 ppm	Rising	-40°C to 55°C -40°F to 131°F
Cl ₂	Chlorine	OPT-R1S-CL1	5.00 ppm (Fixed)	5.00 ppm	N / A	0.01 ppm	0.15 ppm	0.50 ppm	1.00 ppm	Rising	2.00 ppm	Rising	-20°C to 55°C -4°F to 131°F
H ₂ S	Hydrogen Sulphide	OPT-R1S-HS1	10 ppm to 50 ppm	15.0 ppm	0.1 ppm	0.1 ppm	1.0 ppm	3.0 ppm	5.0 ppm	Rising	10.0 ppm	Rising	-40°C to 65°C -40°F to 149°F
H ₂ S (High)	Hydrogen Sulphide	OPT-R1S-HS2	500 ppm to 25 %vol	100 ppm	10 ppm	1 ppm	1 ppm	5 ppm	20 ppm	Rising	50 ppm	Rising	-40°C to 65°C -40°F to 149°F
O ₂	Oxygen	OPT-R1S-OX1	(Fixed)	25.0 %vol	N / A	0.1 %vol	0.2 %vol	5.0 %vol	23.5 %vol	Rising	19.5 %vol	Falling	-40°C to 60°C -40°F to 140°F
SO ₂	Sulphur Dioxide	OPT-R1S-SO1	5 ppm to 20 ppm	15.0 ppm	5.0 ppm	0.1 ppm	0.6 ppm	2.0 ppm	5.0 ppm	Rising	10.0 ppm	Rising	-40°C to 65°C -40°F to 149°F
XP SENSOR													
FLCAT	Flammables	OPT-R1X-FL1 (UL) OPT-R1X-FL2 (ATEX)	20 %LEL to 100 %LEL	100 %LEL	10 %LEL	1 %LEL	3 %LEL	5 %LEL	20 %LEL	Rising	50 %LEL	Rising	-40°C to 75°C -40°F to 167°F
CH ₄ IR - LEL	Methane	OPT-R1X-ME1 (UL) OPT-R1X-ME2 (ATEX)	20 %LEL to 100 %LEL	100 %LEL	10 %LEL	1 %LEL	3 %LEL	5 %LEL	20 %LEL	Rising	50 %LEL	Rising	-40°C to 75°C -40°F to 167°F
C ₃ H ₈ IR - LEL	Propane	OPT-R1X-PR1 (UL) OPT-R1X-PR2 (ATEX)	20 %LEL to 100 %LEL	100 %LEL	10 %LEL	1 %LEL	3 %LEL	5 %LEL	20 %LEL	Rising	50 %LEL	Rising	-40°C to 75°C -40°F to 167°F

ORDERING INFORMATION



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