# **Honeywell**





A universal transmitter compatible with all Honeywell gas sensor technologies





### **Flexible**

- Compatible with all Honeywell Analytics gas sensors
- Allows selection of best sensor technology for each application
- Choice of all industry standard output signals
- Ability to adapt configuration as site needs change
- Future-proofed for any new output standards

### **Common Transmitter Platform**

- · Simplified and reduced cost of installation
- Reduced training time and cost
- · Less chance of misinterpreting messages
- Less chance of incorrectly changing settings
- Reduced maintenance, spares, stock and cost

### **Global Approvals**

- European, US and Canadian
- Compliant with ATEX, UL and CSA standards
- ATEX, UL and CSA performance approval
- IEC61508 SIL 2

### Easy to Use

- Easy read multilingual backlit LCD with text, bar graph, digits and icons
- · Local or remote sensor mounting options
- Selectable sink, source or isolated 4-20mA output to suit preferred wiring topology
- HART® communications as standard for remote diagnostics/configuration

### **Reduced Operational Costs**

- Fully configurable via non-intrusive magnetic switches
- No hot work permit needed
- Hot swap toxic and Oxygen sensor cartridges
- · Serviceable catalytic and IR sensors
- Auto-inhibit during maintenance

### Friendly Installation

- Integral surface mounting lugs or optional pipe or ceiling mounting brackets
- 5 x M25 or ¾" NPT cable/conduit/sensor entries
- Plug-in 'POD' module removes to give access to terminal area
- Removable plug/socket type terminal blocks for ease of wiring

### **Typical Applications**

- Offshore oil and production platforms
- Oil and gas exploration and drilling
- Refineries
- · Chemical and petrochemical plants
- · Onshore oil and gas terminals
- · Gas transmission
- · Power stations

XNX is an extremely flexible transmitter that can be configured to accept an input from any of the Honeywell Analytics range of gas sensor technologies. It can also be configured to provide a wide variety of industry standard output signals. This enables users to have a single type of interface to all their gas detection needs, even when different types of detectors are employed, to most effectively address the different gas detection applications on site.



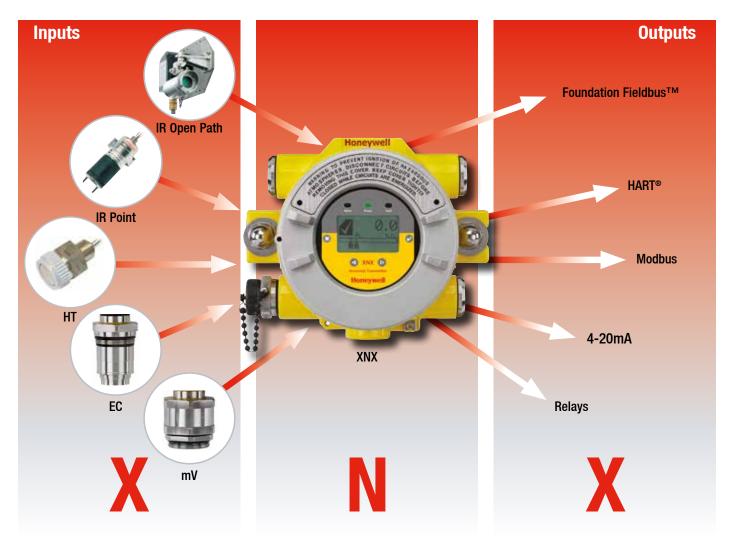
The most effective gas detection systems often employ a variety of detection technologies including point flammable detectors (both catalytic and infrared type), toxic and Oxygen electrochemical cell type detectors and open path infrared detectors. XNX provides a common transmitter interface to all of these and can be configured to provide industry standard signal outputs to match the individual requirement of each application or the preferred site standard. If site output standards change, XNX can be reconfigured to provide the new required output. XNX has also been futureproofed by having the ability to have other output modules fitted as new output standards are developed and adopted by industry.

Having a common transmitter platform for all your gas detectors brings further benefits. Common tools and installation methods simplifies and reduces cost of installation. The common user interface makes operation faster to learn and easier to navigate, thus reducing time needed for training as well as reducing the chance of incorrectly interpreting messages or incorrectly changing settings. Common spare parts also mean reduced maintenance spares stock levels and cost for all detectors.

XNX allows you to apply the most appropriate gas detection technologies for each application, standardise the interface to those detectors and has the flexibility to provide the required signal outputs. With XNX the answer is always yes.







### **XNX Transmitter**

XNX has Worldwide hazardous area and performance approvals and is housed in a flameproof enclosure that is available in either painted marine grade aluminum alloy or stainless steel 316 versions. A large backlit multilingual LCD clearly indicates the unit's status using a combination of text, digits and icons. Users can modify its operation using the LCD and magnet switches without ever needing to open the unit. An optional local IS HART® terminal port is also available. Both enable one man, non-intrusive, operation and reduce routine maintenance time and costs. Local LEDs are also provided to indicate the unit's status at a glance.

## **XNX Transmitter Sensor Compatibility**

XNX is compatible with all of the Honeywell Analytics range of industrial fixed gas sensors including Searchline Excel, Searchpoint Optima Plus, Sensepoint (HT and PPM) and Model 705. For further information on these sensors, please refer to their individual datasheets.



XNX with Searchpoint Optima Plus





XNX EC Sensor

The Multi Purpose Detector (MPD) is a serviceable stainless steel sensor housing with plug-in catalytic and infrared sensor cartridges. The catalytic sensors measure flammable gases in the range 0-100%LEL and the infrared sensors measure Hydrocarbons in the range 0-100%LEL, or Methane 0-100%LEL (or 0-5%Vol) and CO<sub>2</sub> 0-5%Vol. See the specifications section for full details of the MPD sensor.

The XNX EC sensor is also a serviceable stainless steel sensor with a wide range of toxic and Oxygen plug-in sensor cartridges. The XNX EC sensor interface to the XNX transmitter is intrinsically safe, allowing the sensors to be 'hot swapped' without the need for a hot work permit. This reduces the cost of ownership by reducing the cost and time to service the detector.





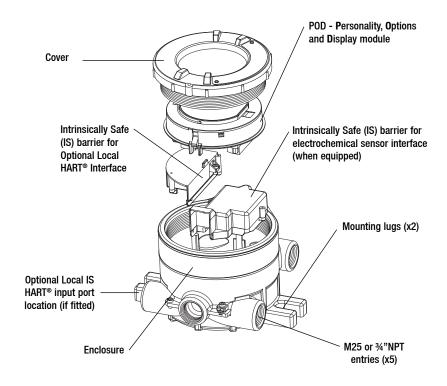
# XNX Transmitter Configuration

XNX has three basic personalities (configurations) which support different types of sensor. The personality boards and optional output interfaces are enclosed in the electronics POD (Personality, Options and Display). The POD determines the XNX transmitter behaviour based on the sensor type attached to it and the selected output options.

The mV (millivolt) personality is used for all mV signal input sensors including MPD, Sensepoint HT, PPM and the Model 705. The EC (Electrochemical cell) personality is for use with the XNX EC toxic and Oxygen sensors. The IR (infrared) personality is for use with the Searchline Excel open path and Searchpoint Optima Plus point infrared gas detectors.

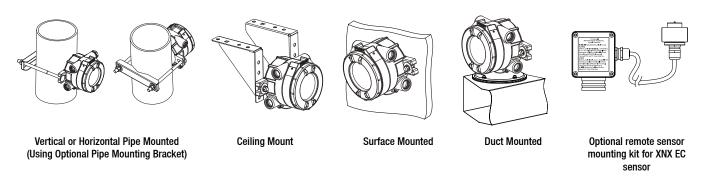
The table below shows the three basic XNX transmitter configurations and the sensors each supports.

# **XNX Transmitter Main Components**



Personality			XNX mV	XNX EC	XNX IR			
Sensors Supported	MPD Flammable Catalytic	MPD Flammable Infrared (Flam and CO <sub>2</sub> )	Sensepoint HT (High Temperature)	Sensepoint PPM	Model 705 HT (High Temperature)	XNX Toxic and Oxygen Sensors	Searchpoint Optima Plus	Searchline Excel
Product Image			0		N.			

# **Mechanical Installation Options**



# Installation



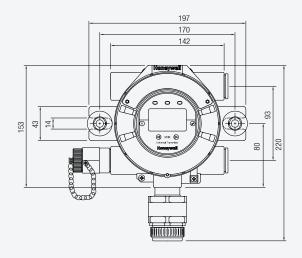


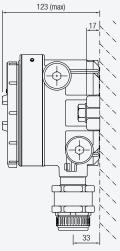
### **Outline Installation Dimensions**

XNX has two integral mounting lugs on the transmitter body. The transmitter may be fixed directly to a surface, or to a horizontal or vertical pipe/structure, Ø100-150mm (Ø4 to 6") using a U bolt and pipe mounting bracket. Below are surface mounted outline installation dimensions for the different XNX configurations.

Note: All dimensions are typical and are in millimeters. There are small differences in size between the aluminium version (shown) and stainless steel version. This does not effect the location of the mounting holes.

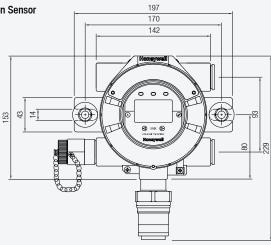
### XNX with MPD Sensor

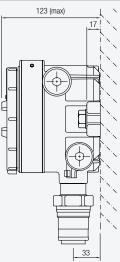




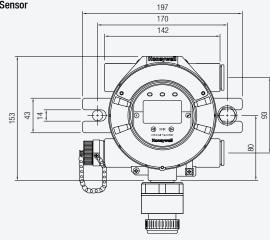
Note: When fitting the Storm Baffle accessory (2108B0280) to the Searchpoint Optima Plus, please use the Fitting Kit (2108B0270).

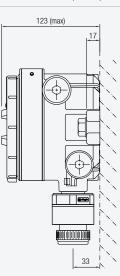
### XNX with EC Toxic and Oxygen Sensor





### XNX with Sensepoint PPM Sensor





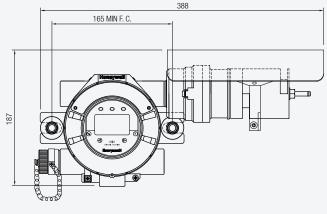
# Installation

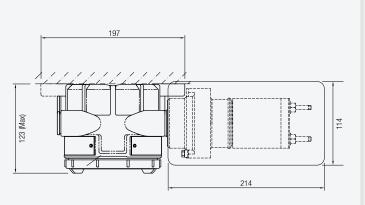


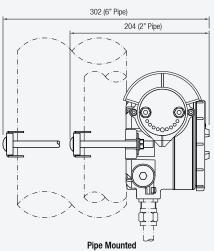


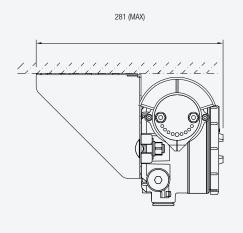
### **Outline Installation Dimensions**

### XNX IR with Searchpoint Optima Plus



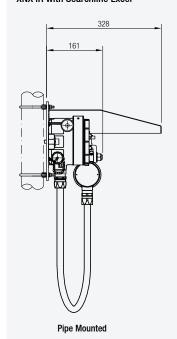


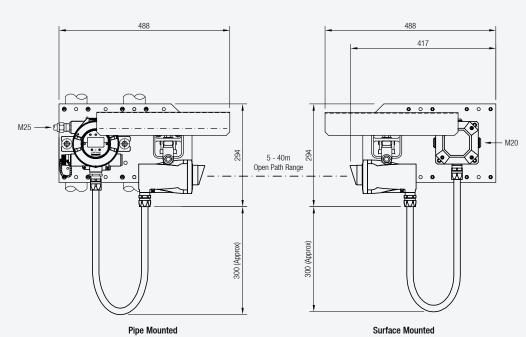




**Ceiling Mounted** 

### XNX IR with Searchline Excel





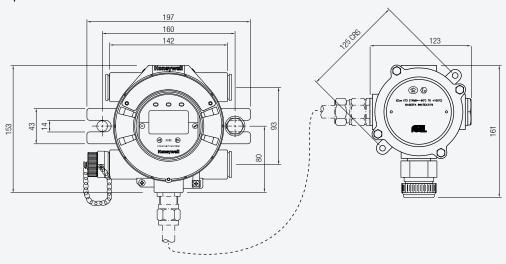
# Installation



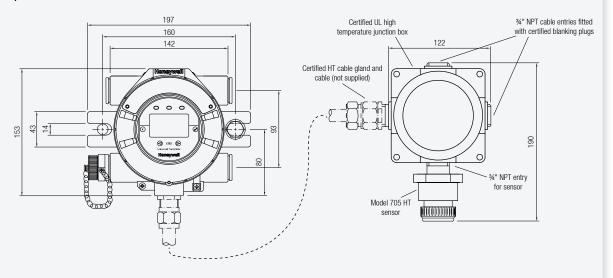


### **Outline Installation Dimensions**

### XNX with Remote Sensepoint HT and Feel Junction Box

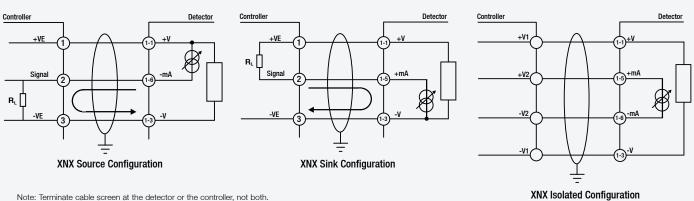


### XNX with Remote Sensepoint Model 705 HT and Junction Box



### **Wiring Schematics**

The XNX transmitter may be configured current source, sink or isolated. These options are offered to allow greater flexibility in the type of control system that it can be used with. Source/sink/isolated is selectable via the switch located on the back side of the POD.



Note: Terminate cable screen at the detector or the controller, not both.

# **Electrical**





### Electrical

XNX is designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitable mechanically protected cable and glands (M25 or ¾" NPT) or conduit. Use 0.5mm² (20AWG) to 2.5mm² (~13AWG) cross sectional area cable as needed to ensure minimum operating voltage at the detector, depending on installed cable length. Five M25 (ATEX/IECEx certified version) or ¾"NPT entries (UL/CSA version) are provided. Entries are also used for either locally mounting a sensor or for accepting the cable/conduit from a remotely mounted sensor.

### **Typical Maximum Cable Lengths**

The maximum cable length between a controller and detector is dependent upon:

- The minimum guaranteed supply voltage from the controller
- The minimum operating voltage of the detector
- The maximum current draw of the detector
- The input impedance of the controller
- The resistance of the cable

The typical maximum cable length table (right) is for an XNX mV with an MPD catalytic sensor or an XNX EC with an XNX EC sensor fitted. It also assumes a single transmitter being powered from a PSU. Refer to the manual for examples of other variants and cable topology.

Cable Size	Max Cable Distance Meters (Feet)
1.0mm² (18AWG*)	347m (1140')
1.5mm² (16AWG*)	551m (1810')
2.0mm <sup>2</sup> (14 AWG*)	880m (2890')
2.5mm² (12AWG*)	1408m (4620')

<sup>\*</sup>nearest equivalent

### **Terminals on POD Module**

All sensor connections and option module connections are made at the terminal blocks mounted on the rear of the removable POD module.

The terminals provided are dependent on which of the three basic personalities have been selected plus the options selected.

The tables below show the different terminal connections for each of the available POD personality boards and options boards.

	S1	S2
Source	Down	Up
Sink	UP	Down
Isolated	Down	Down

**TB4** 

Marking Connection

Remote reset switch Remote reset switch

# Example mV POD with Relay Option Sink/Source/ Isolated Selection Switches TB4 Remote Reset SW Relay Ratings 250VAC 2A 24VDC 5A 24VDC 5A 3-1 NC 100 NC 1-10 N

Options Boards								
Terminal		Relay	Me	odbus RTU	Foundation Fieldbus			
TB3	Marking	Connection	Marking	Connection	Marking	Connection		
3-1	NC	Alarm 1 Normally Closed	+	Power In +	F+	FF Data In +		
3-2	С	Alarm 1 Common	+	Power Out +	F+	FF Data Out +		
3-3	NO	Alarm 1 Normally Open	-	Power In -	F-	FF Data In -		
3-4	NC	Alarm 2 Normally Closed	-	Power Out -	F-	FF Data Out -		
3-5	С	Alarm 2 Common	Α	Modbus A In	FS	FF Shield In		
3-6	NO	Alarm 2 Normally Open	Α	Modbus A Out	SS	FF Shield Out		
3-7	NC	Fault Normally Closed	В	Modbus B In				
3-8	С	Fault Common	В	Modbus B Out				
3-9	NO	Fault Normally Open	S	Modbus Drain In				
3-10	-	-	S	Modbus Drain Out				

Personality Boards								
Terminal		Marking		Connection				
TB1	EC	mV	IR					
1-1	+V	+V	+V	+VE Supply (18-32VDC)				
1-2	+V	+V	+V	+VE Supply (18-32VDC)*				
1-3	-V	-V	-V	-VE supply (0VDC)				
1-4	-V	-V	-V	-VE supply (0VDC)*				
1-5	+mA	+mA	+mA	Current & HART output 4-20mA +				
1-6	-mA	-mA	-mA	Current & HART output 4-20mA -				
1-7	-	Sense	+lr	Sensor Connection				
1-8	-	OV	-lr	Sensor Connection				
1-9	-	Ref	Sig	Sensor Connection				
TB2	EC	mV	IR					
2-1	-	-	Com A	Optima/Excel Modbus A Comms				
2-2	-	-	Com B	Optima/Excel Modbus B Comms				

<sup>\*</sup>Terminal block jumper required

# **Technical Summary**





XNX Transmitter							
Use	High specification universal transmitter for use with a wide range of Honeywell Analytics local or remote gas detectors for the detection of flammable, toxic and Oxygen gas hazards. Suitable for use in Zone 1 and 2 or Zone 21 and 22 hazardous areas, and North American Class I and II Division 1 or 2 areas.						
Construction							
Material	Housing: 5-coat marine finish painted aluminium alloy or 316 stainless steel						
Weight (Approx.)	Aluminium alloy: 2.8kg (6.2lbs). 316 stainless	steel: 5kg (11lbs)					
Mounting	Surface mount via integral mounting lugs. Opti	onal pipe mounting kit suitable for Ø100mm to 15	Omm (Ø4" to 6") pipe. Optional ceiling mounting bracket				
Entries	5 conduit/cable entries (2 right, 2 left, 1 bottor	n). Entry size M25 for ATEX/IECEx versions or ¾"NI	PT for UL/CSA certified versions				
Dimensions	160mm x 197mm x 114mm (6.1" x 7.8" x 4.5	5")					
Environmental	(S)	- ,					
IP Rating	IP66 in accordance with EN60529:1992. NEM	A 4X					
Operating Temperature	-40°C to +65°C (-40°F to +149°F)						
Operating Humidity	0-99%RH (non condensing)						
Operating Pressure	90-110kPa						
Storage Conditions	-40°C to 75°C (-40°F to 167°F), 0-99% non-co	ondonaina					
Electrical	-40 C to 75 C (-40 F to 107 F), 0-99% Holl-Ct	ondensing					
Input Voltage Range	EC and mV versions 16 to 32Vdc IR version 1	8 to 32 V/dc (24V/dc nominal)					
Max Power Consumption	XNX EC (Toxic): 6.2 watts XNX mV (Catalytic or IR cell): 6.5 watts	XNX mV (Catalytic or IR cell): 6.5 watts XNX IR with Searchpoint Optima Plus: 9.7 watts					
Current Output	Fully configurable isolated 4-20mA & HART® output module providing current sink, current source and isolated modes of operation (supports HART® 6.0 protocol) supplied as standard    Default current output settings:   HART® mode:						
4-20mA Signal Accuracy	+/-1% Full Scale						
Functions Supported by HART®	Gas reading Gas name and units of measurement 4-20mA signal level General/device information Installation Configuration Forcing of 4-20mA output	Detailed sensor information including: Optical signal level Dynamic reserve (Searchline Excel only) Raw reading 24V supply voltage Temperature	Calibration and configuration status Detailed fault and warning information Fault and alarm history Zero calibration				
Terminals	Cage style pluggable with retaining screws for	wire diameter 0.5mm² to 2.5mm² (approx. 20AWG	i to 14AWG)				
Certification							
European	ATEX: 🚱 II 2 (1) G Ex d [ia IIC Ga] IIC T4/T6	Gb 🕲 II 2 (1) D Ex tb [ia IIIC Da] IIIC T85 Db					
International	IECEx: Ex d [ia IIC Ga] IIC T4/T6 Gb Ex tb [ia	IIIC Da] IIIC T85 Db					
North American	UL: Class I, Div 1, Groups A, B, C, and D; Class FM: AEx D [ia IIC] IIB + H2 T6 -40°C ≤Tamb ≤	s II, Div. 1 Groups F & G / Class 1, Zone 1 Groups I 65°C	B + H2; Class II, Zone 20 & 21				
Canadian	CSA: Class I, Div 1, Groups B, C, and D; Class	II, Div. 1 Groups F & G / Class I, Zone 1 Groups IIB	+ H2				
EMC	EN50270:2006 EN61000-6-4:2007						
Performance	Europe — ATEX, EN45544, EN50104, EN50271:2010, EN13980, EN60079-29-1 North America — UL 913, UL 1203, CSA 22.2 No. 152 IEC61508 (SIL Assessment, SIL 2), IECEx OD 005						
Local IS HART® Port (Optiona	1)						
Description	Provides externally accessible IS connections t	o the XNX transmitter to enable 'hot' connection of	HC275/375 HART® or equivalent hand held configurator				
Installation	Fitted to one of the cable entries on the XNX tr	ansmitter. Option can be factory fitted or in the fiel	d by a qualified service engineer				
Environmental Protection	Port protected by cover to IP66/67 when not in	n use					
Relay Module (Optional)	, ,						
Description	Provides three fully user configurable relay out 1 x SPCO fault relay. Mutually exclusive with N		s level and/or status of the transmitter. Provides 2 x SPCO alarm and				
Rating	Maximum: 240VAC, 5A (non inductive load) Mi	nimum: 5V, 10mA (non inductive load)					
Installation	Option can be factory installed in display modu	ile or in the field by a qualified service engineer					
		•					

# **Technical Summary**





Foundation Fieldbus™ Mod	ule (Optional)							
Description	Foundation Fieldbus™ output for connectio	Foundation Fieldbus™ output for connection to a multi-drop H1 network. Mutually exclusive with relays and/or Modbus options						
Installation	Option can be factory installed in display me	odule or in the field by a qualified service engineer						
Connections	Sig+, Sig- and Screen							
Physical Layer	Conforms to IEC 1158-2 and ISA 50.02, 31	.25Kbits/s						
Maximum No. of Nodes	32							
Functions Supported	Gas reading Gas name and units of measurement Instrument status (OK, warning, fault, over-range) General/Device Information Remote zero and span calibration (detector dependent)	Detailed sensor information Including: Optical Signal Level Dynamic reserve (Searchline Excel only) Raw reading 24V supply voltage Temperature Calibration and configuration status	Detailed Fault and Warning Information: Fault and alarm history Zero calibration					
Modbus RTU Module (Option	al)							
Description	The Modbus output module provides an isol with relays and/or Foundation Fieldbus™ op	•	NX transmitter to a multi-drop Modbus network. Mutually exclusive					
Installation	Option factory installed in display module or	in the field by a qualified service engineer						
Connections	RS485+, RS485-, Drain							
Physical Layer	Isolated RS485, 1200 to 19.2K baud	Isolated RS485, 1200 to 19.2K baud						
Maximum No. of Nodes	254 XNX compatible transmitters only							
Protocol	Modbus RTU							
Functions Supported	As per Foundation Fieldbus™ Module (Opti-	onal) - see above						

XNX EC	Selisor												
	Gas	Cartridge P/N	Selectable Full Scale Range	Default Range	Lower Detectable	Steps	Selectable Cal Gas Range	Default Cal Point	Response Time	Response Time	Accuracy*	Operating '	Temperature
			outo nango	nungo	Limit		uuo nungo	our rount	(T50) sec	(T90) sec		Min	Max
02	Oxygen	XNXXS01SS	n/a	25.0 %Vol	3.5 %Vol	n/a	20.9 %Vol (Fixed)	20.9 %Vol	T20 <10	<30	<+/-0.6 %Vol	-30°C / -34°F	55°C / 131°F
H <sub>2</sub> S (LoLo)	Hydrogen Sulphide	XNXXSH3SS	n/a	15.0ppm	1.0ppm	n/a		10ppm	<20	<40	<+/-0.3ppm	-40°C / -40°F	55°C / 131°F**†
H <sub>2</sub> S (Lo)	Hydrogen Sulphide	XNXXSH1SS	10.0 to 50.0ppm	15.0ppm	1.0ppm	0.1ppm		10ppm	<20	<30	<+/-0.3ppm	-40°C / -40°F	55°C / 131°F**†
H <sub>2</sub> S (Hi)	Hydrogen Sulphide	XNXXSH2SS	50 to 500ppm	100ppm	1ppm	10ppm		50ppm	<20	<30	<+/-5ppm	-40°C / -40°F	55°C / 131°F**†
CO	Carbon Monoxide	XNXXSC1SS	100 to 500ppm	300ppm	5ppm	100ppm		100ppm	<15	<30	<+/-2ppm	-40°C / -40°F	55°C / 131°F**
SO <sub>2</sub> (Lo)	Sulphur Dioxide	XNXXSS1SS	5.0 to 20.0ppm	15.0ppm	0.6ppm	5.0ppm		5.0ppm	<15	<30	<+/-0.3ppm	-40°C / -40°F	55°C / 131°F**
SO <sub>2</sub> (Hi)	Sulphur Dioxide	XNXXSS2SS	20.0 to 50.0ppm	50.0ppm	1.5ppm	10.0ppm		25ppm	<15	<30	<+/-0.6ppm	-40°C / -40°F	55°C / 131°F**
NH <sub>3</sub> (Lo)	Ammonia	XNXXSA1SS	50 to 200ppm	200ppm	6ppm	50ppm	<u></u>	100ppm	<60	<180	<+/-4ppm	-20°C / -4°F	40°C / 104°F
NH <sub>3</sub> (Hi)	Ammonia	XNXXSA2SS	200 to 1,000ppm	1,000ppm	30ppm	50ppm	rang	300ppm	<60	<180	<+/-20ppm	-20°C / -4°F	40°C / 104°F
CL <sub>2</sub> (Lo)	Chlorine	XNXXSL2SS	n/a	5.00ppm	0.15ppm	n/a	scale	2.0ppm	<20	<60	<+/-0.2ppm	-10°C / 14°F	55°C / 131°F
CL <sub>2</sub> (Hi)	Chlorine	XNXXSL1SS	5.0 to 20.0ppm	5.0ppm	0.6ppm	5.0ppm		2.0ppm	<20	<30	<+/-0.2ppm	-10°C / 14°F	55°C / 131°F
CIO <sub>2</sub>	Chlorine Dioxide	XNXXSX1SS	n/a	1.00ppm	0.03ppm	n/a	ectec	0.5ppm	<30	<120	<+/-0.03ppm	-20°C / -4°F	55°C / 131°F
NO	Nitrogen Monoxide	XNXXSM1SS	n/a	100ppm	Зррт	n/a	30 to 70% of selected full scale range	50ppm	<15	<30	<+/-2ppm	-20°C / -4°F	55°C / 131°F
NO <sub>2</sub>	Nitrogen Dioxide	XNXXSN1SS	5.0 to 50.0ppm	10.0ppm	1.5ppm	5.0ppm	%	5ppm	<15	<30	<+/-0.2ppm	-20°C / -4°F	55°C / 131°F
H <sub>2</sub> (Lo)	Hydrogen	XNXXSG1SS	n/a	1,000ppm	30ppm	n/a	) to 7	500ppm	<60	<90**	<+/-8ppm	-20°C / -4°F	55°C / 131°F
H <sub>2</sub> (Hi)	Hydrogen	XNXXSG2SS	n/a	10,000ppm	300ppm	n/a	, , , , , , , , , , , , , , , , , , ,	5000ppm	<15	<30	<+/-150ppm	-20°C / -4°F	55°C / 131°F
HF	Hydrogen Fluoride	XNXXSF1SS	n/a	12.0ppm	0.4ppm	n/a		5.0ppm	120	<240	<+/-0.5ppm	-20°C / -4°F	55°C / 131°F
PH <sub>3</sub>	Phosphine	XNXXSP1SS	n/a	1.20 ppm	0.04ppm	n/a		0.5ppm	<15	<30	<+/- 0.02ppm	-20°C / -4°F	40°C / 104°F
HCN	Hydrogen Cyanide	XNXXSY1SS	n/a	30.0ppm	1.0ppm	n/a		10.0ppm	<35	<200	0.4ppm	-20°C / -4°F	55°C / 131°F
F <sub>2</sub>	Fluorine	XNXXSU1SS	n/a	4.00ppm	0.36ppm	n/a		2.00ppm	<5	<30	0.03ppm	-20°C / -4°F	55°C / 131°F
03	Ozone	XNXXSZ1SS	n/a	0.400ppm	0.032ppm	n/a		0.200ppm	<15	<60	0.003ppm	-20°C / -4°F	55°C / 131°F
ETO	Ethylene Oxide	XNXXSE1SS	20.0 to 50.0ppm	25.0ppm	1.0ppm	5.0ppm		10.0ppm	<40	<125	0.3ppm	-20°C / -4°F	55°C / 131°F

### XNX Multi Purpose Detector (MPD)

	ш. росс 2 с.с.										
Sensor Type	Target Gas	User Selectable Full Scale Range	Default Range	Steps	User Selectable Cal Gas Range	Primary Cal Gas	Default Cal Point	Response Time (T90) secs	Accuracy	Operating 1	emperature Max
IR CO2	Carbon Dioxide	1.00 to 5.00%Vol	5.00%Vol	1.00%Vol	1.50 to 3.5%Vol	Carbon Dioxide	2.5%Vol	<60	±5% of FS	-20°C/-4°F	+50°C/+122°F
ID OLIA	Mathana	1.00 to 5.00%Vol	5.00%Vol	1.00%Vol	1.50 to 3.5%Vol	Methane 2.5%Vol 50%LEL	<30	±5% of FS	-20°C/-4°F	+50°C/+122°F	
IR CH4 Methane	ivietnane	20 to 100%LEL	100%LEL	10%LEL	30 to 70%LEL			±5% of FS			
IR HC	Hydrocarbons#	20 to 100%LEL	100%LEL	10%LEL	30 to 70%LEL	Propane	50%LEL	<30	±5% of FS	-20°C/-4°F	+50°C/+122°F
Catalytic	Flammables	20 to 100%LEL	100%LEL	10%LEL	30 to 70%LEL	Methane	50%LEL	<30	±5% of FS	-40°C/-40°F	+65°C/+149°F

NOTES
Data taken at ambient conditions of 20°C, 50% RH. Data represents typical values of freshly calibrated sensors without optional accessories attached. "Accuracy at 10% of default full scale (typical A1 alarm) of applied gas, or minimum (whichever is greater). Measured using calibration flow housing at calibration flow rate. Performance figures are applicable between 10 and 90% of full scale. Performance figures are measured by test units calibrated at 50% of full scale. Contact Honeywell Analytics for any additional data or details. "Accuracy for operation between -20°C and -40°C is +/-30% of applied † operation to +65°C and/or to 95% RH permitted. Operation at extended maximum conditions continuously (exceeding 12 hours) may cause deterioration in sensor performance and shorten sensor life.

\*Propane sensor with linear cross reference for Ethylene, n Butane and n Pentane. Contact Honeywell for any additional data or details.

# **Ordering Information**





### **Ordering Information**

Standard Supply: The XNX universal transmitter is supplied complete with integral wall mounting lugs, 5 x M25 cable entries (ATEX/IECEx) or 5 x 3/4" NPT conduit entries (UL/CSA), Magnetic wand/ screwdriver, Allen key, 3 x blanking plugs, quick start guide and manual CD. MPD or XNX EC sensors and cartridges are supplied fitted to the bottom entry if ordered. Other sensors are supplied separately. Default settings are configured according to specified personality type (mV, EC or IR) and selected output options.

XNX-









**Personality** 





No Option

installed

**Local Hart** 





Approval	Entry Type

A ATEX/IEC	M M25
U UL- CSA	T ¾"NPT



Aluminium 316

Steel

Interface for Electrochemical Cartridges (Includes IS Barrier and Adaptor) For use with XNX Toxic and Oxygen Sensors Stainless

l r

Interface for infrared Products **Use with Searchline** Excel. Searchpoint **Optima and Generic** 4-20mA inputs

m V Interface for milli-Volt sensors For use with MPD, Sensepoint (and Model 705) HT and PPM Sensors

**Option** 

No Option installed

**Relay Option** 

**Modbus Option** 

**Sensor and Range** 



Specifies the MPD sensor				
NNN	None			
CB1	Catalytic Bead			
IF1	IR Hydrocarbons (0-100%LEL Propane)			
IV1	IR 0-100%LEL (or 0-5%Vol.) Methane			
IC1	IR Carbon Dioxide 0-5%Vol.			

### **Example part number:**

### XNX-AMSV-NNCB1

XNX transmitter with HART® over 4-20mA output ATEX/IEC approved 5 x M25 entries painted 316 stainless steel mV version no output options no local HART

Including MPD sensor. catalytic sensor 0-100%LEL.

### NOTES

The remote gassing kit enables gas to be applied remotely for performing functional response checks. Kit includes 50' Teflon® tubing, mounting bracket, tube cap and device adapters in ¼" and ½" ID to attach to bump test ports on the weatherproof cap of

Certain combinations not available e.g. ATEX with 34" NPT entries. Check price list for valid configurations.

Order sensors other than MPD separately and select'NNN' for sensor and range.

### **Shipping Details**

L370mm (14.6") x W280mm (11") x D180mm (7.1"). **Shipping Carton** 

Remote Gassing Kit

1226A0354

Aluminium version 4.4kg (9.7lbs), stainless steel version 6.8kg (15lbs) Packed weight (Approx.)

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Optional Accessories					
	Pipe Mount Kit	1226A0358	For use on pipes from 50-100mm (2-6 inches) in diameter. The kit includes: Pipe mount bracket, (2) carriage bolts, nuts and lock washers.		
	Remote EC Sensor Mounting Kit	S3KRMK	The remote sensor mounting kit (S3KRMK) allows the XNX EC sensors to be remotely mounted via an IS cable kit, up to 15 meters (50 feet) from the transmitter. The kit includes 15 meters of shielded cable, cable glands and remote terminal box. The cable can be cut to the required length and terminated at the remote terminal box.		
	Ceiling Mount Bracket Kit	1226A0355	The optional ceiling mount bracket kit allows XNX to be mounted to a ceiling. The kit includes: (2) stainless steel ceiling mount brackets, bolts and nuts.		
	Duct Mount Kit	S3KDMK	The duct mounting kit (S3KDMK) can be used with the EC sensor to allow detection of flammable $0_2$ , C0, $H_2$ and $H_2S$ gasses in ducts. When combined with the MPD interface adapter (1226A0382), the duct mounting kit can accommodate the MPD to detect flammable gases in a duct application. The duct mount kit includes the adapter, gasket and required fasteners. The MPD interface adapter includes only the adapter and requires the S3KDMK duct mount kit.		
	MPD Interface Adapter	1226A0382			
	Calibration Gas Flow Adapter	S3KCAL	XNX EC	The calibration gas flow adapter is used to apply calibration test gas to the sensor. It push fills onto the bottom of the sensor and can be fitted without removing the weatherproof cover.	
		1226A0411	MPD		
		02000-A-1645	Sensepoint		
		00780-A-0035	705		
	Weatherproof Cap	Included	XNX EC	The weatherproof cap protects the XNX sensors from harsh weather.	
		02000-A-1640	MPD		
		02000-A-1640	Sensepoint		
		00780-A-2076	705		
	Collecting Cone	SPPPCC	XNX EC	The collecting cone improves detection of lighter-than-air gasses such as Hydrogen and Methane.	
		02000-A-1642	MPD		
		02000-A-1642	Sensepoint		
		02000-A-1642	705		

