



**A universal transmitter  
compatible with all  
Honeywell Analytics gas  
sensor technologies**

# XNX Universal Transmitter



## 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.**

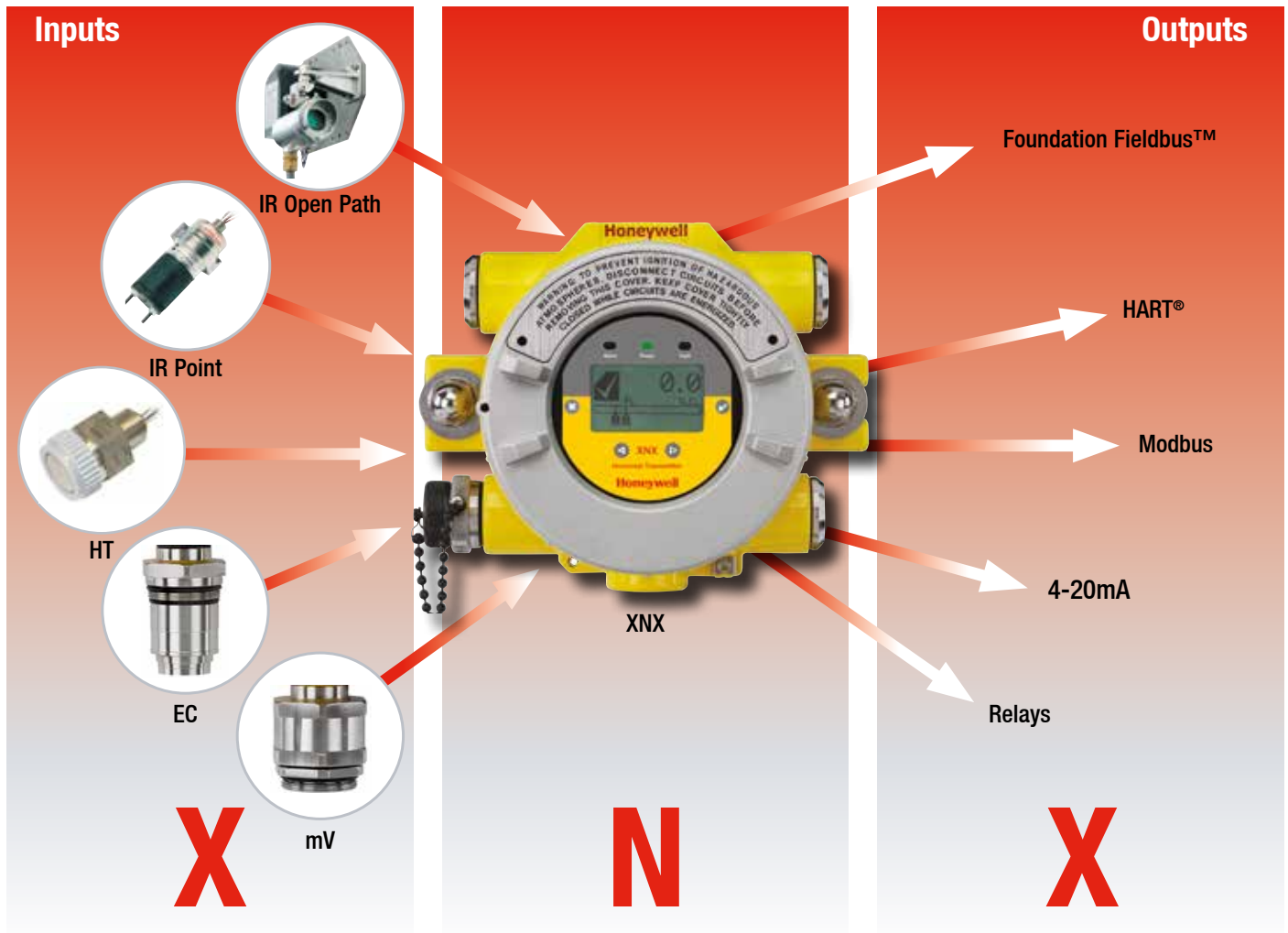


The most effective gas detection systems often employ a variety of detection technologies including point flammable detectors (both catalytic and infrared type), toxic and Oxygen electrochemical cell type detectors and open path infrared detectors. XNX provides a common transmitter interface to all of 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 future-proofed 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 Universal Transmitter



## 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 MPD Sensor



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 Universal Transmitter



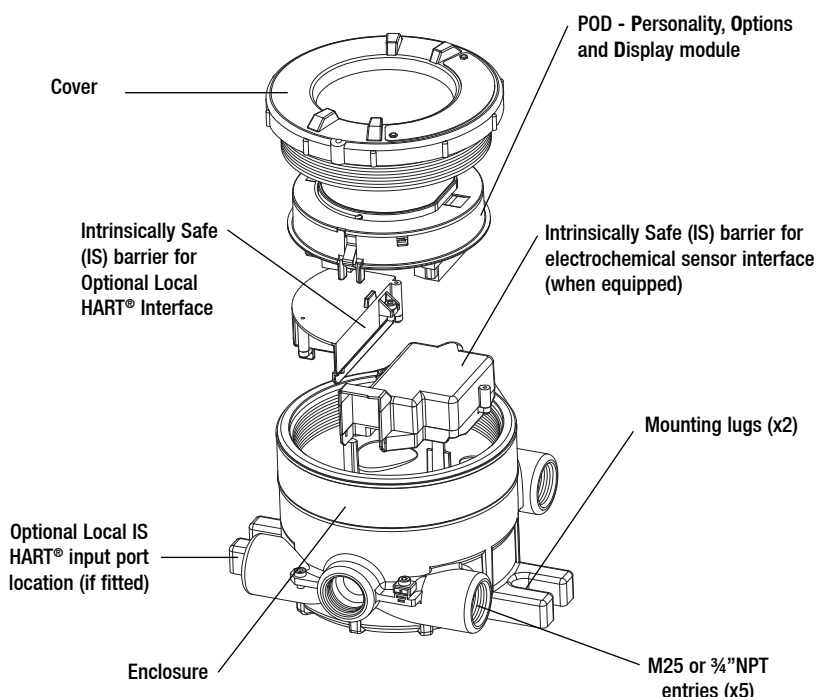
## XNX Transmitter Configuration

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.

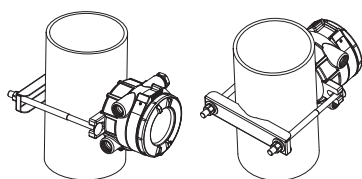
The table below shows the three basic XNX transmitter configurations and the sensors each supports.

## XNX Transmitter Main Components

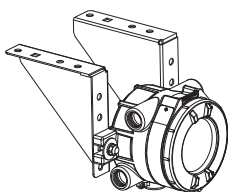


| Personality       | XNX mV                  |                                                    |                                  |                |                                 | XNX EC                       | XNX IR                  |                  |
|-------------------|-------------------------|----------------------------------------------------|----------------------------------|----------------|---------------------------------|------------------------------|-------------------------|------------------|
| 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     |                         |                                                    |                                  |                |                                 |                              |                         |                  |

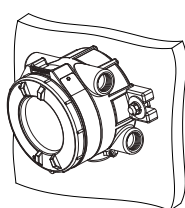
## Mechanical Installation Options



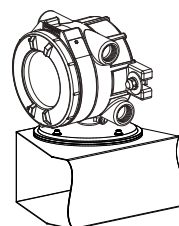
Vertical or Horizontal Pipe Mounted  
(Using Optional Pipe Mounting Bracket)



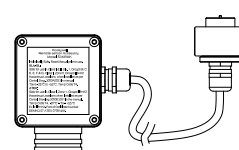
Ceiling Mount



Surface Mounted



Duct Mounted



Optional remote sensor mounting kit for XNX EC sensor

Note: Other sensor accessories available dependent on sensor type. Contact Honeywell Analytics for further details.

# Installation

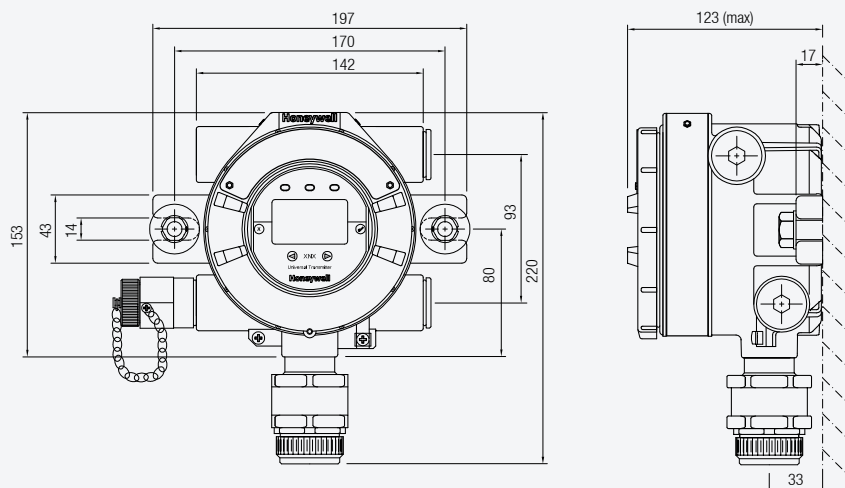


## Outline Installation Dimensions

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.

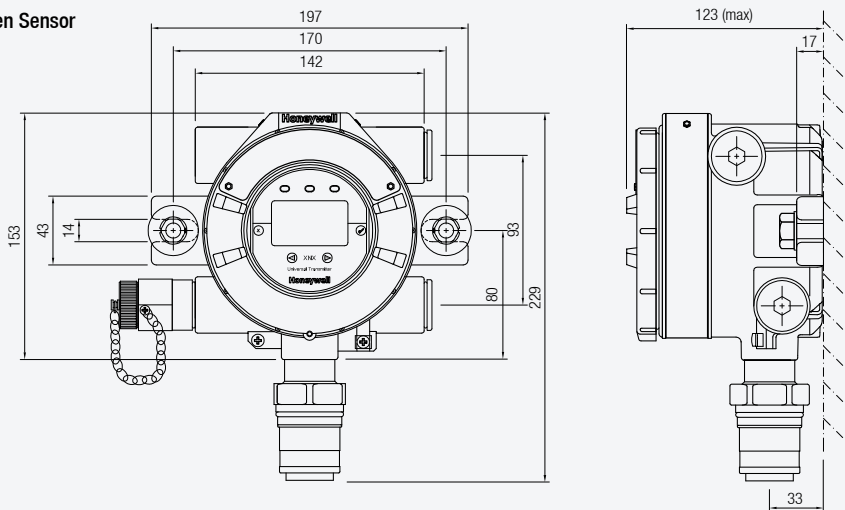
Note: All dimensions are typical and are in millimeters. There are small differences in size between the aluminium version (shown) and stainless steel version. This does not effect the location of the mounting holes.

### XNX with MPD Sensor

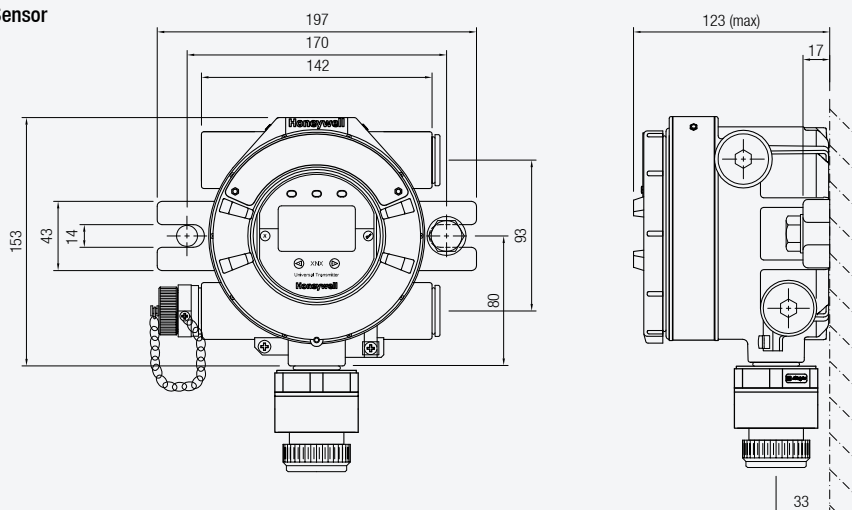


Note: When fitting the Storm Baffle accessory (2108B0280) to the Searchpoint Optima Plus, please use the Fitting Kit (2108B0270).

### XNX with EC Toxic and Oxygen Sensor



### XNX with Sensepoint PPM Sensor

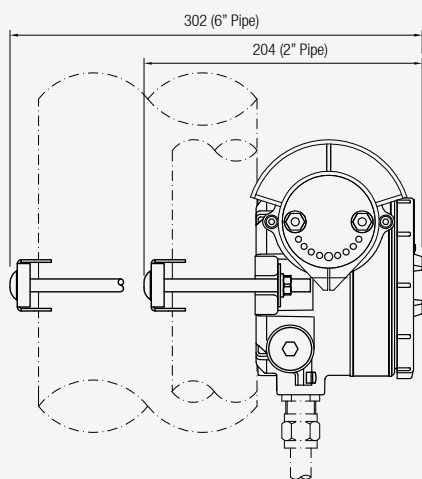
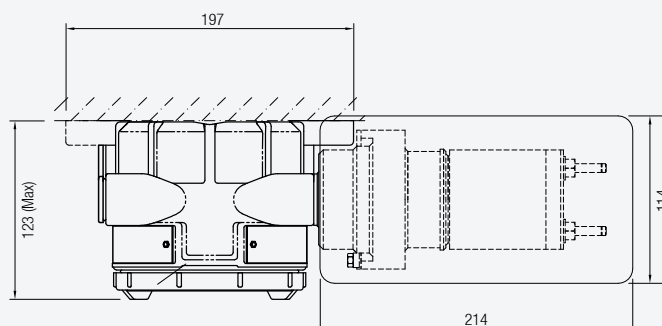
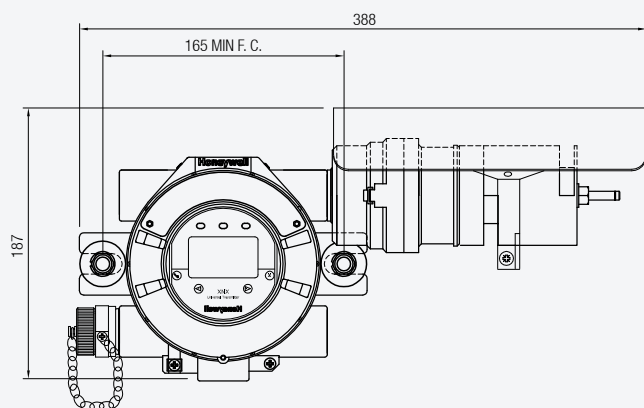


# Installation

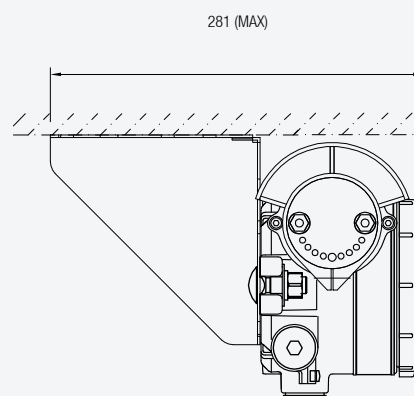


## Outline Installation Dimensions

### XNX IR with Searchpoint Optima Plus

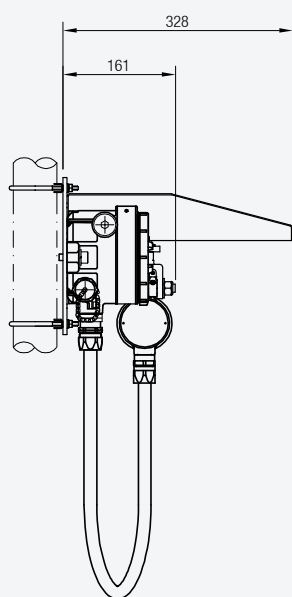


Pipe Mounted

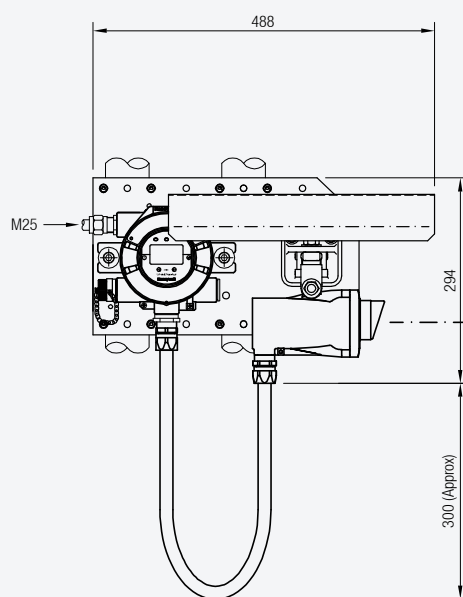


Ceiling Mounted

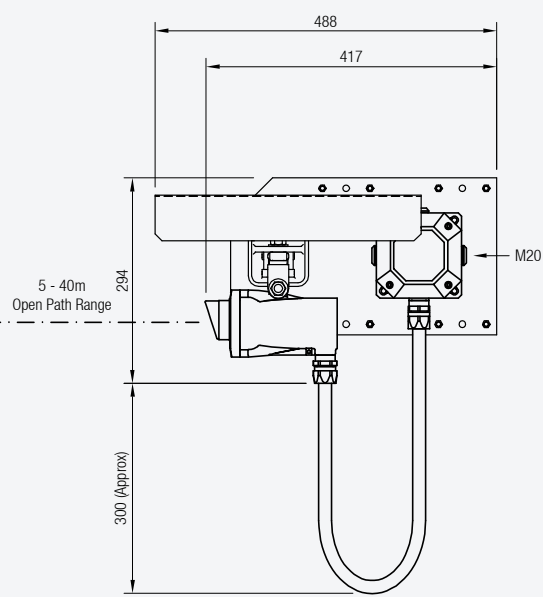
### XNX IR with Searchline Excel



Pipe Mounted



Pipe Mounted



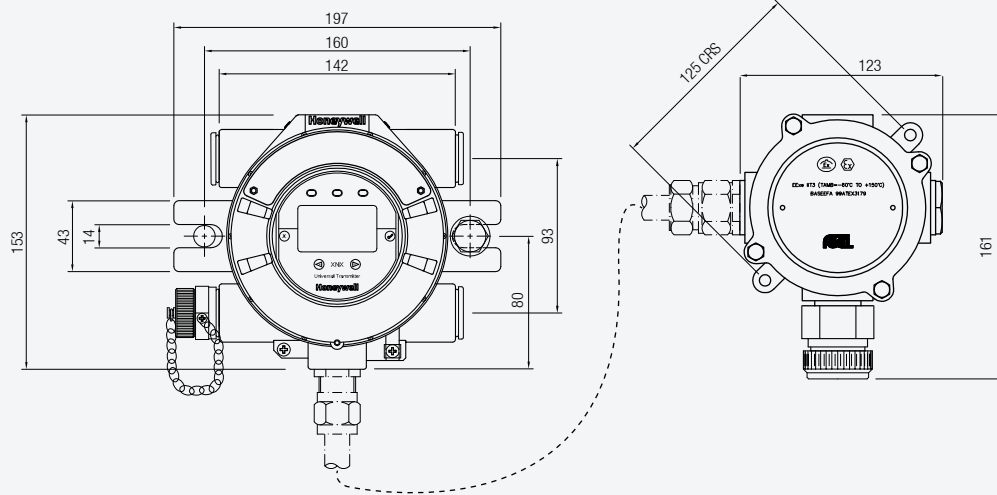
Surface Mounted

# Installation

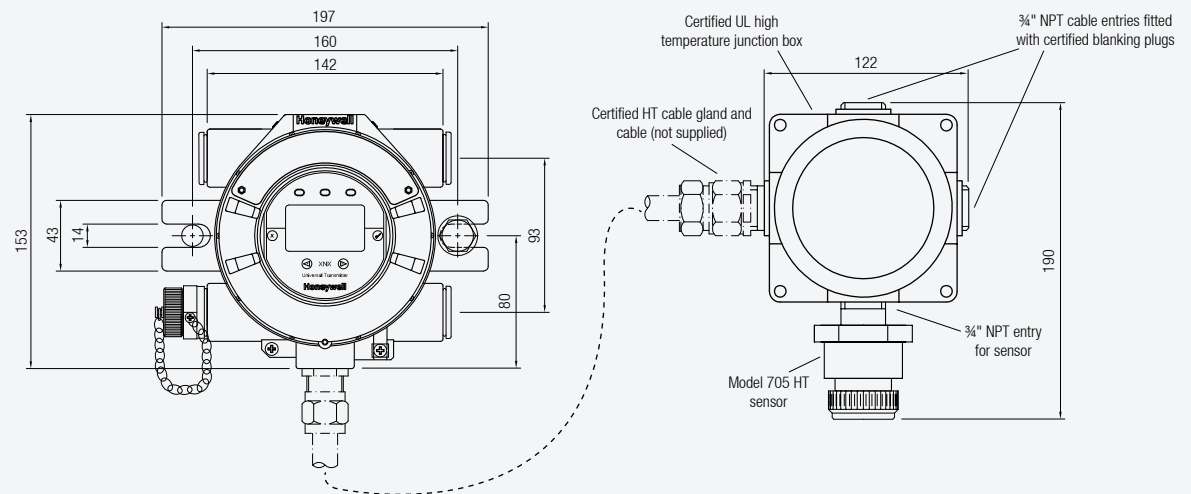


## Outline Installation Dimensions

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

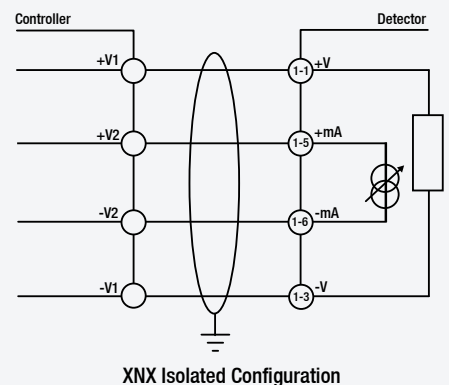
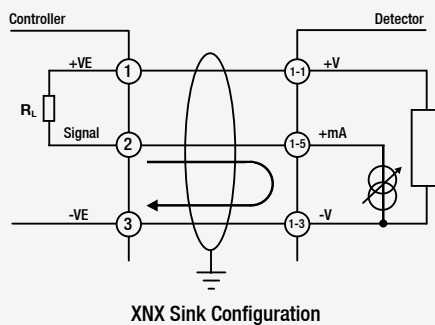
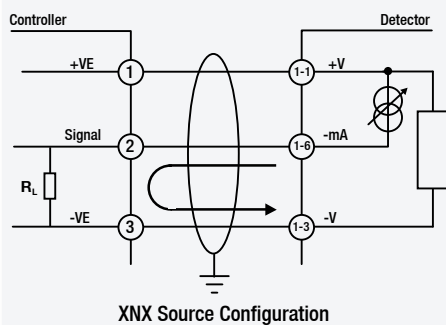


### XXN with Remote Sensepoint Model 705 HT and Junction Box



## Wiring Schematics

The XXN 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 0.5mm<sup>2</sup> (20AWG) to 2.5mm<sup>2</sup> (~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<br>Meters (Feet) |
|------------------------------|-------------------------------------|
| 1.0mm <sup>2</sup> (18AWG*)  | 347m (1140')                        |
| 1.5mm <sup>2</sup> (16AWG*)  | 551m (1810')                        |
| 2.0mm <sup>2</sup> (14 AWG*) | 880m (2890')                        |
| 2.5mm <sup>2</sup> (12AWG*)  | 1408m (4620')                       |

\*nearest equivalent

## Terminals on POD Module

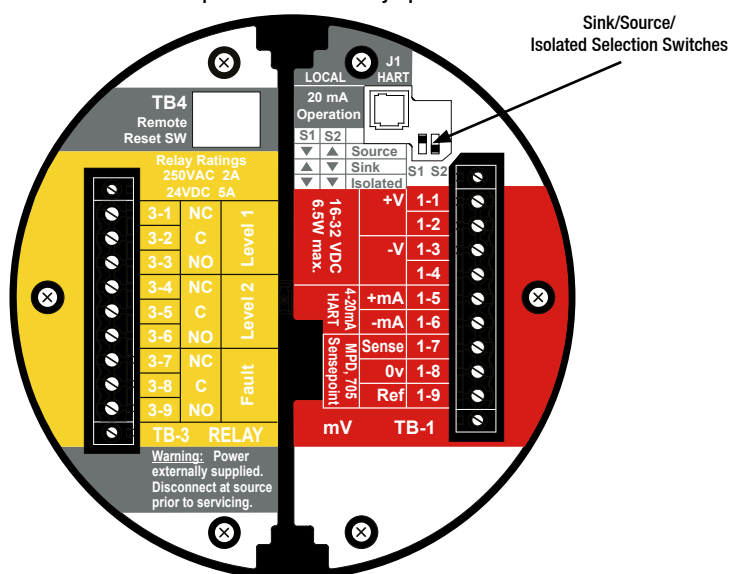
All sensor connections and option module connections are made at the terminal blocks mounted on the rear of the removable POD module.

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   |
|-----------------|------|------|
| <b>Source</b>   | Down | Up   |
| <b>Sink</b>     | UP   | Down |
| <b>Isolated</b> | Down | Down |

Example mV POD with Relay Option



## Options Boards

| Terminal | Relay   |                         | Modbus 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      | C       | 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      | C       | Alarm 2 Common          | A          | Modbus A In      | FS                  | FF Shield In  |
| 3-6      | NO      | Alarm 2 Normally Open   | A          | Modbus A Out     | SS                  | FF Shield Out |
| 3-7      | NC      | Fault Normally Closed   | B          | Modbus B In      |                     |               |
| 3-8      | C       | Fault Common            | B          | Modbus B Out     |                     |               |
| 3-9      | NO      | Fault Normally Open     | S          | Modbus Drain In  |                     |               |
| 3-10     | -       | -                       | S          | Modbus Drain Out |                     |               |
| TB4      | Marking | Connection              |            |                  |                     |               |
|          |         | Remote reset switch     |            |                  |                     |               |
|          |         | Remote reset switch     |            |                  |                     |               |

## 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 (OVDC)              |
| 1-4      | -V      | -V    | -V    | -VE supply (OVDC)*             |
| 1-5      | +mA     | +mA   | +mA   | Current & HART output 4-20mA + |
| 1-6      | -mA     | -mA   | -mA   | Current & HART output 4-20mA - |
| 1-7      | -       | Sense | +Ir   | Sensor Connection              |
| 1-8      | -       | 0V    | -Ir   | 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    |

\*Terminal block jumper required

| 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. Optional pipe mounting kit suitable for Ø100mm to 150mm (Ø4" to 6") pipe. Optional ceiling mounting bracket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                               |                                                                                                                               |
| Entries                        | 5 conduit/cable entries (2 right, 2 left, 1 bottom). Entry size M25 for ATEX/IECEx versions or ¾"NPT for UL/CSA certified versions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |                                                                                                                               |
| Dimensions                     | 160mm x 197mm x 114mm (6.1" x 7.8" x 4.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                               |                                                                                                                               |
| Environmental                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| IP Rating                      | IP66 in accordance with EN60529:1992. NEMA 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-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                               |
| Electrical                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| Input Voltage Range            | EC and mV versions 16 to 32Vdc, IR version 18 to 32 Vdc (24Vdc nominal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                               |                                                                                                                               |
| Max Power Consumption          | XNX EC (Toxic): 6.2 watts<br>XNX mV (Catalytic or IR cell): 6.5 watts<br>XNX IR with Searchpoint Optima Plus: 9.7 watts<br>XNX IR with Searchline Excel Receiver: 13.2 watts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                               |                                                                                                                               |
| Current Output                 | <div>Fully configurable isolated 4-20mA &amp; HART® output module providing current sink, current source and isolated modes of operation (supports HART® 6.0 protocol) supplied as standard</div> <div><div><div>Default current output settings:</div><div>≥0.0&lt;1.0mA</div><div>4.0 mA to 20.0mA</div><div>2.0 mA or 4.0 mA (17.4mA)</div></div><div><div>Fault</div><div>Normal gas measurement</div><div>Inhibit (during configuration/user settings)</div></div><div><div>HART® mode:</div><div>3mA Fault/Warning</div><div>4-20mA Normal gas measurement</div><div>22.0mA Maximum over range</div></div></div> <div>The available output range for Inhibit, Warning, Beam Blocked and Low Signal is from 1 to 4mA. For an over range condition, the range is 20 to 22mA</div> |                                                                                                                                                               |                                                                                                                               |
| 4-20mA Signal Accuracy         | +/-1% Full Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                               |                                                                                                                               |
| Functions Supported by HART®   | Gas reading<br>Gas name and units of measurement<br>4-20mA signal level<br>General/device information<br>Installation<br>Configuration<br>Forcing of 4-20mA output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Detailed sensor information including:<br>Optical signal level<br>Dynamic reserve (Searchline Excel only)<br>Raw reading<br>24V supply voltage<br>Temperature | Calibration and configuration status<br>Detailed fault and warning information<br>Fault and alarm history<br>Zero calibration |
| Terminals                      | Cage style pluggable with retaining screws for wire diameter 0.5mm² to 2.5mm² (approx. 20AWG 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 II, Div. 1 Groups F & G / Class 1, Zone 1 Groups IIB + H2; Class II, Zone 20 & 21<br>FM: AEx D [ia IIC] IIB + H2 T6 -40°C ≤Tamb ≤65°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                               |                                                                                                                               |
| 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<br>North America – UL 913, UL 1203, CSA 22.2 No. 152<br>IEC61508 (SIL Assessment, SIL 2), IECEX OD 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                               |                                                                                                                               |
| Local IS HART® Port (Optional) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| Description                    | Provides externally accessible IS connections to 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 transmitter. Option can be factory fitted or in the field by a qualified service engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                               |                                                                                                                               |
| Environmental Protection       | Port protected by cover to IP66/67 when not in use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |                                                                                                                               |
| Relay Module (Optional)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| Description                    | Provides three fully user configurable relay outputs that can be switched based on the current gas level and/or status of the transmitter. Provides 2 x SPCO alarm and 1 x SPCO fault relay. Mutually exclusive with Modbus and/or Foundation Fieldbus™ options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| Rating                         | Maximum: 240VAC, 5A (non inductive load) Minimum: 5V, 10mA (non inductive load)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |                                                                                                                               |
| Installation                   | Option can be factory installed in display module or in the field by a qualified service engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                               |                                                                                                                               |

# Technical Summary



## Foundation Fieldbus™ Module (Optional)

|                             |                                                                                                                                                                                               |                                                                                                                                                                                                       |                                                                                        |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Description</b>          | Foundation Fieldbus™ output for connection to a multi-drop H1 network. Mutually exclusive with relays and/or Modbus options                                                                   |                                                                                                                                                                                                       |                                                                                        |
| <b>Installation</b>         | Option can be factory installed in display module or in the field by a qualified service engineer                                                                                             |                                                                                                                                                                                                       |                                                                                        |
| <b>Connections</b>          | Sig+, Sig- and Screen                                                                                                                                                                         |                                                                                                                                                                                                       |                                                                                        |
| <b>Physical Layer</b>       | Conforms to IEC 1158-2 and ISA 50.02, 31.25Kbits/s                                                                                                                                            |                                                                                                                                                                                                       |                                                                                        |
| <b>Maximum No. of Nodes</b> | 32                                                                                                                                                                                            |                                                                                                                                                                                                       |                                                                                        |
| <b>Functions Supported</b>  | Gas reading<br>Gas name and units of measurement<br>Instrument status (OK, warning, fault, over-range)<br>General/Device Information<br>Remote zero and span calibration (detector dependent) | Detailed sensor information Including:<br>Optical Signal Level<br>Dynamic reserve (Searchline Excel only)<br>Raw reading<br>24V supply voltage<br>Temperature<br>Calibration and configuration status | Detailed Fault and Warning Information:<br>Fault and alarm history<br>Zero calibration |

## Modbus RTU Module (Optional)

|                             |                                                                                                                                                                                                               |  |  |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Description</b>          | The Modbus output module provides an isolated RS485 output to enable the connection of the XNX transmitter to a multi-drop Modbus network. Mutually exclusive with relays and/or Foundation Fieldbus™ options |  |  |
| <b>Installation</b>         | Option factory installed in display module or in the field by a qualified service engineer                                                                                                                    |  |  |
| <b>Connections</b>          | RS485+, RS485-, Drain                                                                                                                                                                                         |  |  |
| <b>Physical Layer</b>       | Isolated RS485, 1200 to 19.2K baud                                                                                                                                                                            |  |  |
| <b>Maximum No. of Nodes</b> | 254 XNX compatible transmitters only                                                                                                                                                                          |  |  |
| <b>Protocol</b>             | Modbus RTU                                                                                                                                                                                                    |  |  |
| <b>Functions Supported</b>  | As per Foundation Fieldbus™ Module (Optional) - see above                                                                                                                                                     |  |  |

## XNX EC Sensor

| Gas                     |                   | Cartridge P/N | Selectable Full Scale Range | Default Range | Lower Detectable Limit | Steps   | Selectable Cal Gas Range | Default Cal Point | Response Time (T50) sec | Response Time (T90) sec | Accuracy*    | Operating Temperature |                |
|-------------------------|-------------------|---------------|-----------------------------|---------------|------------------------|---------|--------------------------|-------------------|-------------------------|-------------------------|--------------|-----------------------|----------------|
|                         |                   |               |                             |               |                        |         |                          |                   |                         |                         |              | Min                   | Max            |
| O <sub>2</sub>          | Oxygen            | XNXSO1SS      | 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 | XNXSH3SS      | 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 | XNXSH1SS      | 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 | XNXSH2SS      | 50 to 500ppm                | 100ppm        | 1ppm                   | 10ppm   |                          | 50ppm             | <20                     | <30                     | <+/-5ppm     | -40°C / -40°F         | 55°C / 131°F** |
| CO                      | Carbon Monoxide   | XNXSC1SS      | 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   | XNXSS1SS      | 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   | XNXSS2SS      | 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           | XNXSA1SS      | 50 to 200ppm                | 200ppm        | 6ppm                   | 50ppm   |                          | 100ppm            | <60                     | <180                    | <+/-4ppm     | -20°C / -4°F          | 40°C / 104°F   |
| NH <sub>3</sub> (Hi)    | Ammonia           | XNXSA2SS      | 200 to 1,000ppm             | 1,000ppm      | 30ppm                  | 50ppm   |                          | 300ppm            | <60                     | <180                    | <+/-20ppm    | -20°C / -4°F          | 40°C / 104°F   |
| CL <sub>2</sub> (Lo)    | Chlorine          | XNXSL2SS      | n/a                         | 5.00ppm       | 0.15ppm                | n/a     |                          | 2.0ppm            | <20                     | <60                     | <+/-0.2ppm   | -10°C / 14°F          | 55°C / 131°F   |
| CL <sub>2</sub> (Hi)    | Chlorine          | XNXSL1SS      | 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   |
| ClO <sub>2</sub>        | Chlorine Dioxide  | XNXSX1SS      | n/a                         | 1.00ppm       | 0.03ppm                | n/a     |                          | 0.5ppm            | <30                     | <120                    | <+/-0.03ppm  | -20°C / -4°F          | 55°C / 131°F   |
| NO                      | Nitrogen Monoxide | XNXSM1SS      | n/a                         | 100ppm        | 3ppm                   | n/a     |                          | 50ppm             | <15                     | <30                     | <+/-2ppm     | -20°C / -4°F          | 55°C / 131°F   |
| NO <sub>2</sub>         | Nitrogen Dioxide  | XNXSN1SS      | 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          | XNXSG1SS      | n/a                         | 1,000ppm      | 30ppm                  | n/a     |                          | 500ppm            | <60                     | <90**                   | <+/-8ppm     | -20°C / -4°F          | 55°C / 131°F   |
| H <sub>2</sub> (Hi)     | Hydrogen          | XNXSG2SS      | n/a                         | 10,000ppm     | 300ppm                 | n/a     |                          | 5000ppm           | <15                     | <30                     | <+/-150ppm   | -20°C / -4°F          | 55°C / 131°F   |
| HF                      | Hydrogen Fluoride | XNXSF1SS      | 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         | XNXSP1SS      | 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  | XNXSY1SS      | 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          | XNXSU1SS      | n/a                         | 4.00ppm       | 0.36ppm                | n/a     |                          | 2.00ppm           | <5                      | <30                     | 0.03ppm      | -20°C / -4°F          | 55°C / 131°F   |
| O <sub>3</sub>          | Ozone             | XNXSZ1SS      | 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    | XNXSE1SS      | 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   |

30 to 70% of selected full scale range

## XNX Multi Purpose Detector (MPD)

| 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 Temperature |              |
|-------------|----------------|----------------------------------|---------------|----------|-------------------------------|-----------------|-------------------|--------------------------|-----------|-----------------------|--------------|
|             |                |                                  |               |          |                               |                 |                   |                          |           | Min                   | 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 |
| IR CH4      | Methane        | 1.00 to 5.00%Vol                 | 5.00%Vol      | 1.00%Vol | 1.50 to 3.5%Vol               | Methane         | 2.5%Vol           | <30                      | ±5% of FS | -20°C/-4°F            | +50°C/+122°F |
|             |                | 20 to 100%LEL                    | 100%LEL       | 10%LEL   | 30 to 70%LEL                  |                 | 50%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 at these temperatures 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 Analytics 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-

| Approval                 | Entry Type                          | Material                        | Personality                                                                                                                                   | - | Option                                  | Local HART                      | Sensor and Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
|--------------------------|-------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|------------|------|------------|----------------|------------|-------------------------------------|------------|------------------------------------|------------|----------------------------|
| <b>A</b><br>ATEX/IEC     | <b>M</b><br>M25                     | <b>A</b><br>Aluminium           | <b>E<sub>c</sub></b><br>Interface for Electro-chemical Cartridges (Includes IS Barrier and Adaptor) For use with XNX Toxic and Oxygen Sensors | - | <b>N</b><br>No Option installed         | <b>N</b><br>No Option installed | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Specifies the MPD sensor</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>NNN</b></td> <td>None</td> </tr> <tr> <td style="text-align: center;"><b>CB1</b></td> <td>Catalytic Bead</td> </tr> <tr> <td style="text-align: center;"><b>IF1</b></td> <td>IR Hydrocarbons (0-100%LEL Propane)</td> </tr> <tr> <td style="text-align: center;"><b>IV1</b></td> <td>IR 0-100%LEL (or 0-5%Vol.) Methane</td> </tr> <tr> <td style="text-align: center;"><b>IC1</b></td> <td>IR Carbon Dioxide 0-5%Vol.</td> </tr> </tbody> </table> | Specifies the MPD sensor |  | <b>NNN</b> | None | <b>CB1</b> | Catalytic Bead | <b>IF1</b> | IR Hydrocarbons (0-100%LEL Propane) | <b>IV1</b> | IR 0-100%LEL (or 0-5%Vol.) Methane | <b>IC1</b> | IR Carbon Dioxide 0-5%Vol. |
| Specifies the MPD sensor |                                     |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>NNN</b>               | None                                |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>CB1</b>               | Catalytic Bead                      |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>IF1</b>               | IR Hydrocarbons (0-100%LEL Propane) |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>IV1</b>               | IR 0-100%LEL (or 0-5%Vol.) Methane  |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>IC1</b>               | IR Carbon Dioxide 0-5%Vol.          |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
| <b>U</b><br>UL- CSA      | <b>T</b><br>¾"NPT                   | <b>S</b><br>316 Stainless Steel | <b>I<sub>r</sub></b><br>Interface for infrared Products Use with Searchline Excel, Searchpoint Optima and Generic 4-20mA inputs               |   | <b>R</b><br>Relay Option                | <b>H</b><br>Local Hart          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
|                          |                                     |                                 | <b>mV</b><br>Interface for milli-Volt sensors For use with MPD, Sensepoint (and Model 705) HT and PPM Sensors                                 |   | <b>M</b><br>Modbus Option               |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
|                          |                                     |                                 |                                                                                                                                               |   | <b>F</b><br>Foundation Fieldbus™ Option |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |
|                          |                                     |                                 |                                                                                                                                               |   |                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |            |      |            |                |            |                                     |            |                                    |            |                            |

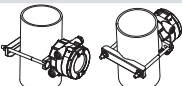
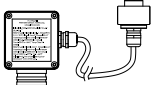
**Example part number:**  
**XNX-AMSV-NNCB1**  
 XNX transmitter with HART® over 4-20mA output  
 ATEX/IEC approved  
 5 x M25 entries  
 painted 316 stainless steel  
 mV version  
 no output options  
 no local HART  
 Including MPD sensor. catalytic sensor 0-100%LEL.

**NOTES**  
 Certain combinations not available e.g. ATEX with ¾" NPT entries. Check price list for valid configurations.  
 Order sensors other than MPD separately and select 'NNN' for sensor and range.

## Shipping Details

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| Shipping Carton         | L370mm (14.6") x W280mm (11") x D180mm (7.1").                          |
| Packed weight (Approx.) | Aluminium version 4.4kg (9.7lbs), stainless steel version 6.8kg (15lbs) |

## Optional Accessories

|                                                                                     |                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Pipe Mount Kit</b>                | 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.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                              |
|  | <b>Remote EC Sensor Mounting Kit</b> | 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.                                                                                                                                                             |                                                                                                                                                                                              |
|  | <b>Ceiling Mount Bracket Kit</b>     | 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.                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |
|  | <b>Duct Mount Kit</b>                | S3KDMK       | The duct mounting kit (S3KDMK) can be used with the EC sensor to allow detection of flammable O <sub>2</sub> , CO, H <sub>2</sub> and H <sub>2</sub> S 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. |                                                                                                                                                                                              |
|                                                                                     | <b>MPD Interface Adapter</b>         | 1226A0382    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |
|  | <b>Calibration Gas Flow Adapter</b>  | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |
|  | <b>Weatherproof Cap</b>              | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |
|  | <b>Collecting Cone</b>               | SPPCC        | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |
|  | <b>Remote Gassing Kit</b>            | 1226A0354    | The remote gassing kit enables gas to be applied remotely for performing functional response checks.<br>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 your device.                                                                                                                                                                                                                         |                                                                                                                                                                                              |

# Honeywell Analytics Gas Detection



Honeywell Analytics is able to provide gas detection solutions to meet the requirements of all applications and industries. Contact us in the following ways:

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