Product Overview

XNX

Introducing… X (inputs) 'n' X (outputs)

Inputs

- IR Open Path
- IR Point
- HT
- ECC
- mV

XNX

Outputs

- Foundation Fieldbus™ *
- HART®
- Modbus®
- 4-20mA
- Relays

X **N** **X**

*Pending

HONEYWELL - CONFIDENTIAL
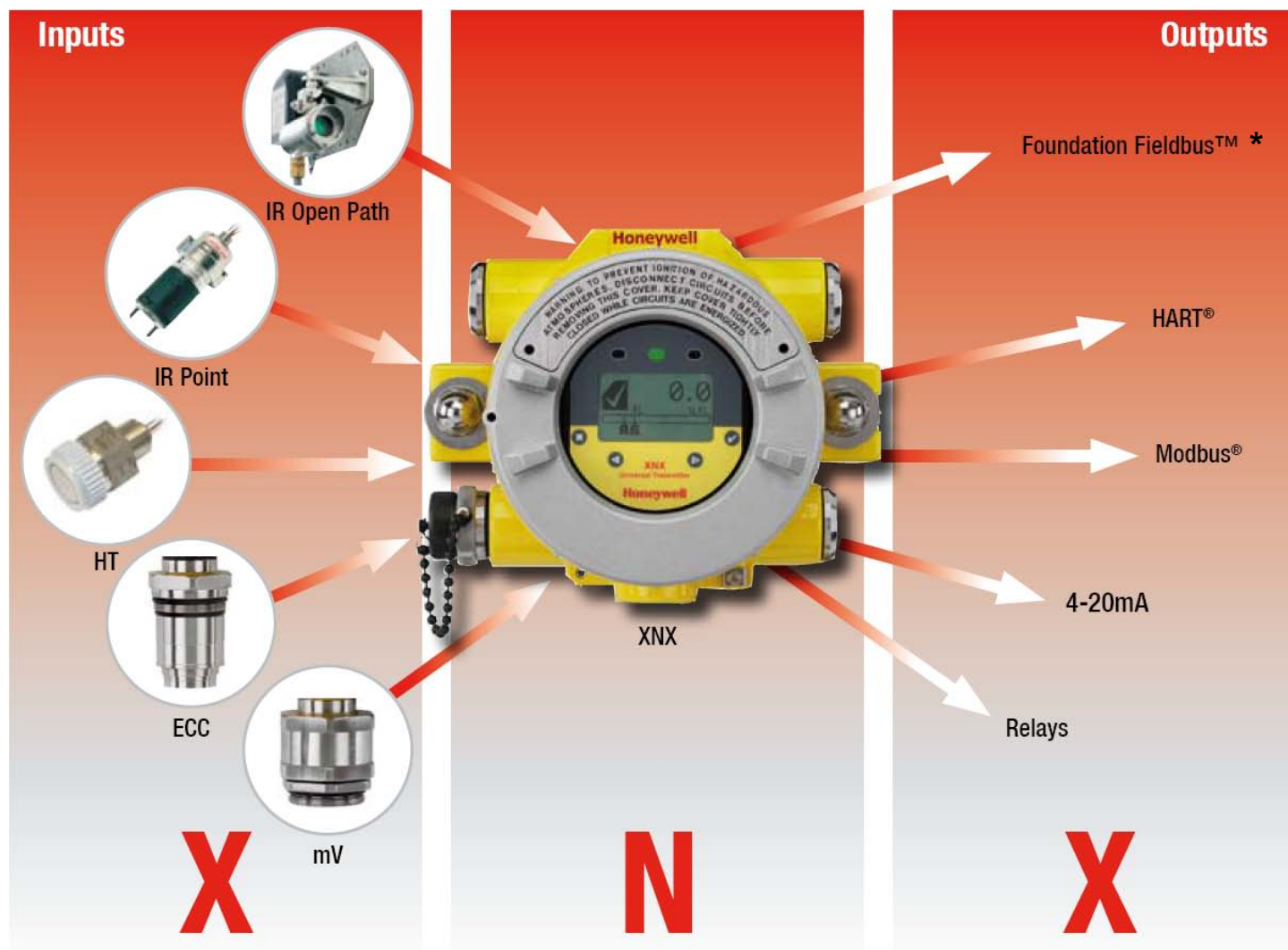
XNX Product Overview

- A 3 or 4 wire sink, source or isolated 4-20mA output with HART® universal transmitter
- For use with all Honeywell Analytics gas detection technologies (catalytic, EC and IR)
- Compliant with the latest certification standards
- New range of XNX EC toxic and flammable catalytic and IR MPD sensors
- Common transmitter for all sensors
- HART® over 4-20mA as standard
- Optional relays, local HART® port, Modbus® or Foundation Fieldbus™ (pending) outputs

XNX Sensors

- **Compatible with full range of HA sensor technologies**

  - Catalytic, Infrared and EC Sensors

- **New Multi Purpose Detector (MPD)**

  - Smart sensor with plug in catalytic and IR cartridges

  - Serviceable Stainless steel sensor housing

  - Catalytic: Flammable gases in the range 0-100%LEL

  - IR: Hydrocarbon gases in the range 0-100%LEL (0-5%Vol) and CO_2 0-5%Vol

- **New XNX EC Sensor**

  - Smart sensor with plug in toxic and oxygen sensor cartridges

  - Serviceable Stainless steel sensor

  - Intrinsically Safe sensor socket allowing 'hot swap' without the need for a hot work permit.

- **Compatible with existing HA sensors**

  - Sensepoint (and 705) High Temperature and PPM (0-10%LEL or 10,000ppm)

  - Searchpoint Optima and Searchline Excel

Product Overview Presentation XNX rev 2

Reflex^{TM} Detection Cell Diagnostics
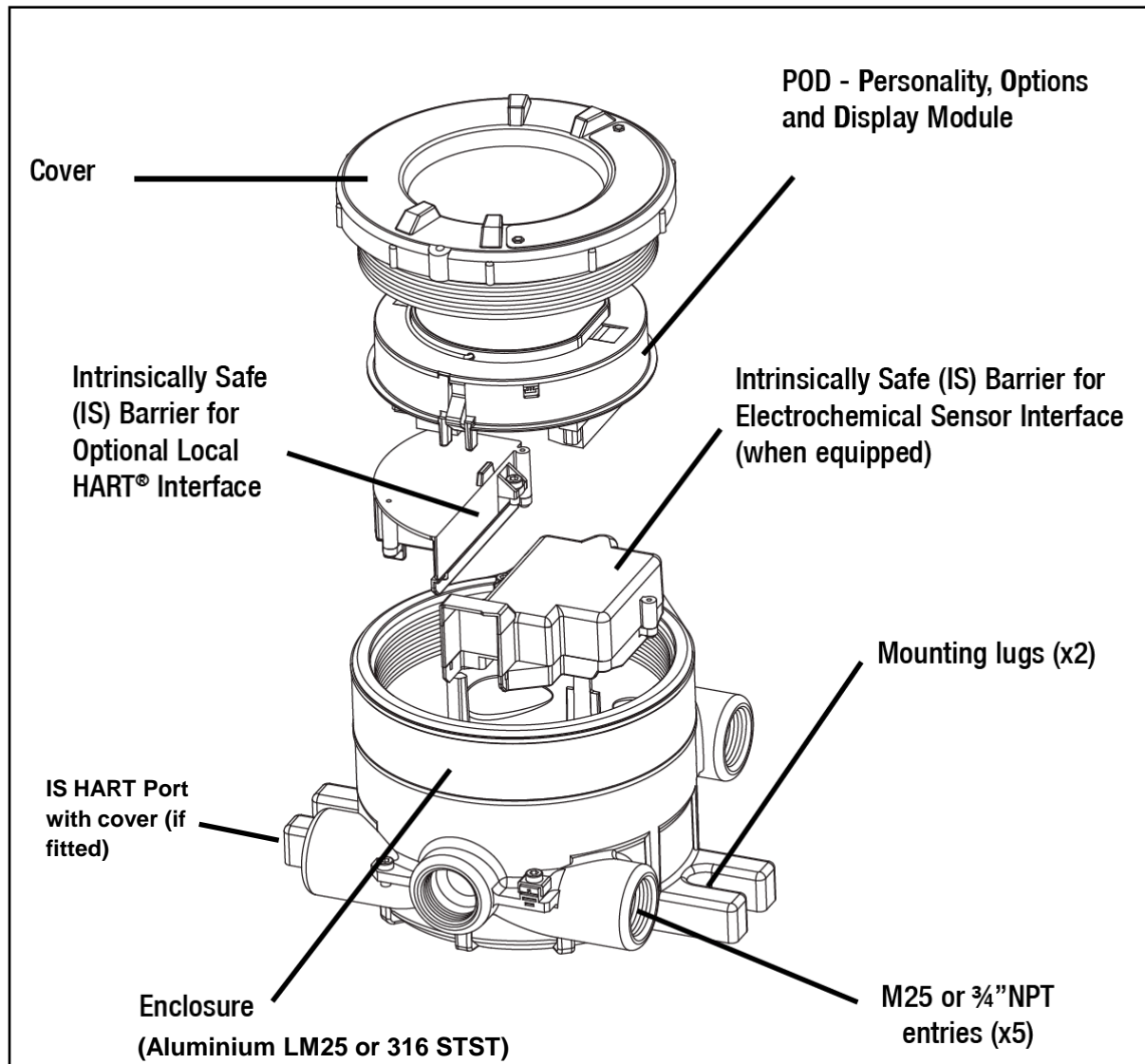
- **Reflex^{TM} is a Honeywell Analytics patented fault diagnostic routine for electrochemical cells**

- **Reflex^{TM} increases operator confidence of detector operability and availability**

- **Reflex^{TM} is initiated automatically by the transmitter**
  - **On power up**
  - **Sensor exchange**
  - **At 8 hourly intervals during operation**

- **Reflex^{TM} checks for:**
  - **Cell presence**
  - **Cell dry out**
  - **Cell open circuit and cell short circuit**
  - (Note: Not relevant for O_2 detection. Does not remove the need for regular response gas checks or calibration).

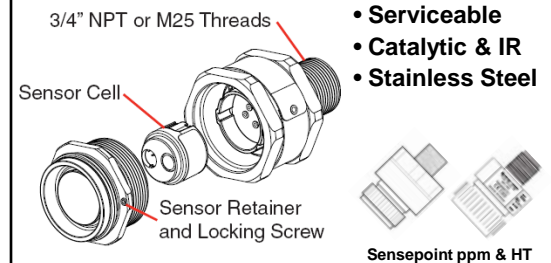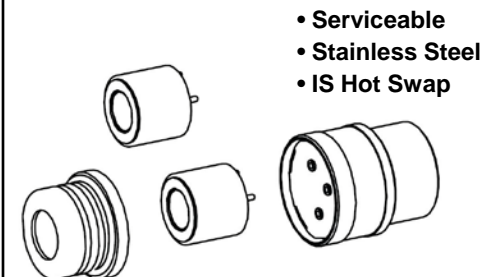# Configuration to Customer Requirements

Honeywell

Cover

POD - Personality, Options and Display Module

Intrinsically Safe (IS) Barrier for Optional Local HART® Interface

Intrinsically Safe (IS) Barrier for Electrochemical Sensor Interface (when equipped)

Mounting lugs (x2)

IS HART Port with cover (if fitted)

Enclosure
(Aluminium LM25 or 316 STST)

M25 or ¾"NPT entries (x5)

HART IS Port

IS barrier for HART interface

IS HART Port with cover

MPD Sensor

3/4" NPT or M25 Threads

Sensor Cell

Sensor Retainer and Locking Screw

- Serviceable
- Catalytic & IR
- Stainless Steel

Sensepoint ppm & HT

XNX EC Sensor

- Serviceable
- Stainless Steel
- IS Hot Swap

POD- Provides the Flexibility

- XNX has three basic PODs:
  - The mV (Millivolt) personality (CB/IR Slug)
    - ◆ MPD, Sensepoint HT, PPM and Model 705 HT
  - The EC (Electrochemical cell) personality
    - ◆ New IS XNX EC toxic and Oxygen sensors
  - The IR (Infrared) personality (Optima/Excel)
    - ◆ Searchline Excel and Searchpoint Optima Plus
- **Mutually exclusive options for each POD**
 - Relays, Modbus® or Foundation Fieldbus™*

Example POD with mV Input and Relay Output
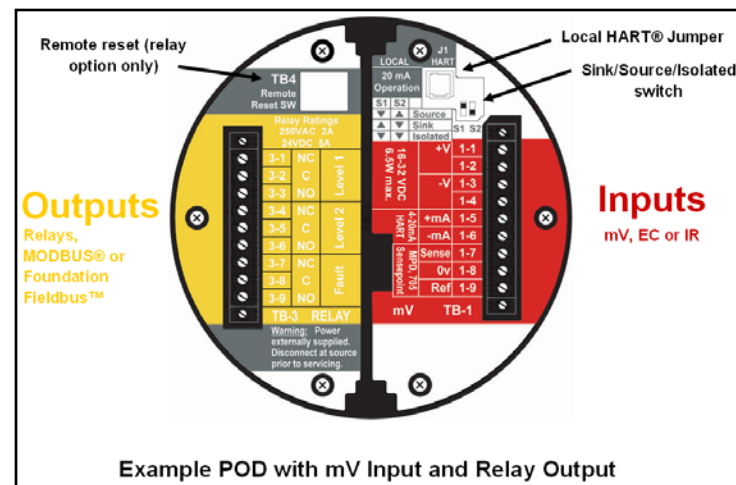
Personality	XNX mV					XNX EC	XNX IR	
Sensors Supported	MPD Flammable Catalytic	MPD Flammable Infrared (Flam and CO_2)	Sensepoint HT (High Temperature)	Sensepoint PPM	705 HT (High Temperature)	XNX Toxic and Oxygen Sensors	Searchpoint Optima	Searchline Excel
Product Image								

* Pending

Product Overview Presentation XNX rev 2

Simple installation

Installation Options:
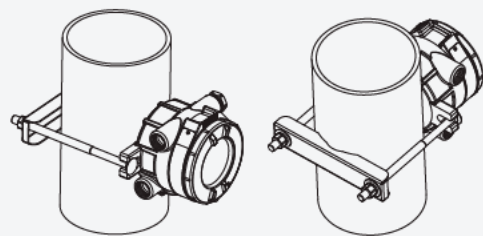
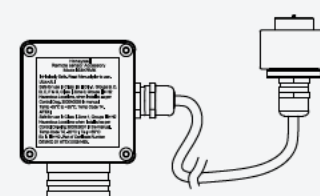**Vertical or Horizontal Pipe Mounted (Using Optional Pipe Mounting Bracket)**   **Ceiling Mount**   **Surface Mounted**   **Duct Mounted**   **Optional remote sensor mounting kit for XNX EC sensor**
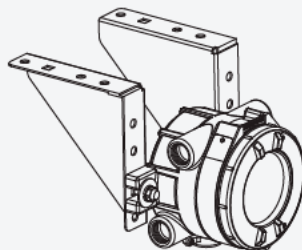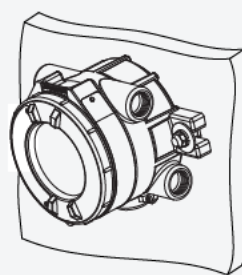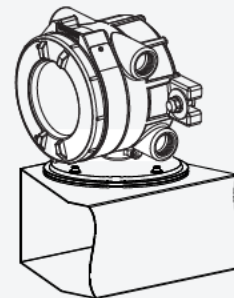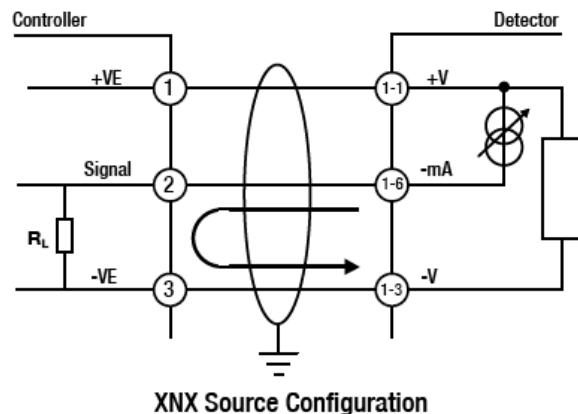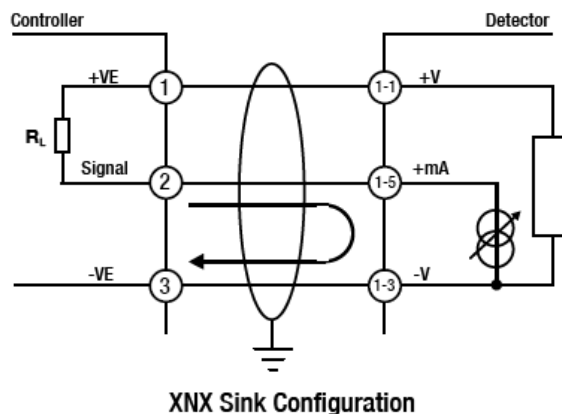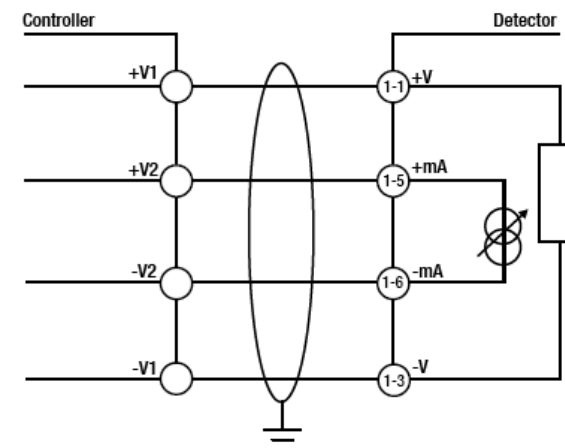
Wiring Schematics

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

XNX Source Configuration   **XNX Sink Configuration**   **XNX Isolated Configuration**

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

XNX Mechanical Data

- **Materials**
  - **Painted Aluminium LM25**
    - General Industrial applications
  - **Painted Stainless Steel 316**
    - Offshore and harsh environments
    - Food and beverage markets
- **Hazardous area certified**
  - **ATEX, IECEx, UL and cUL**
- **Mounting**
  - **2 x Integral mounting lugs**
  - **Suitable for M10-12 bolts**
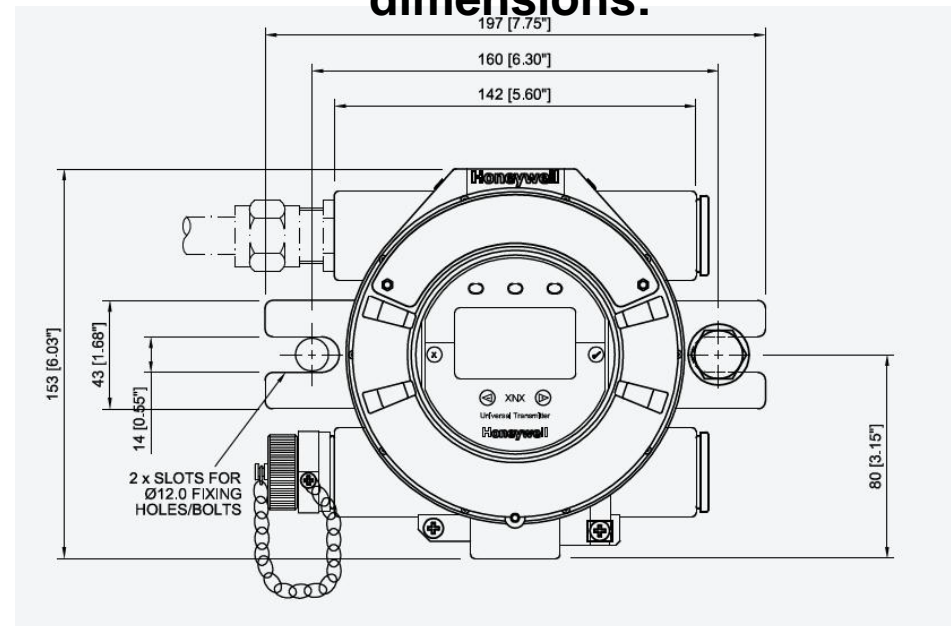 - **Optional Pipe, Ceiling or Duct mounting options (see following slides)**
- **Dimensions**
  - **See separate drawings for individual XNX & various sensor option combinations**

- **Entries**
  - **5 x M25 (ATEX/IECEx version)**
  - **5 x ¾"NPT (UL/CSA versions)**
  - **Suitable blanking plugs also supplied**
    - Must be suitably sealed to maintain IP rating
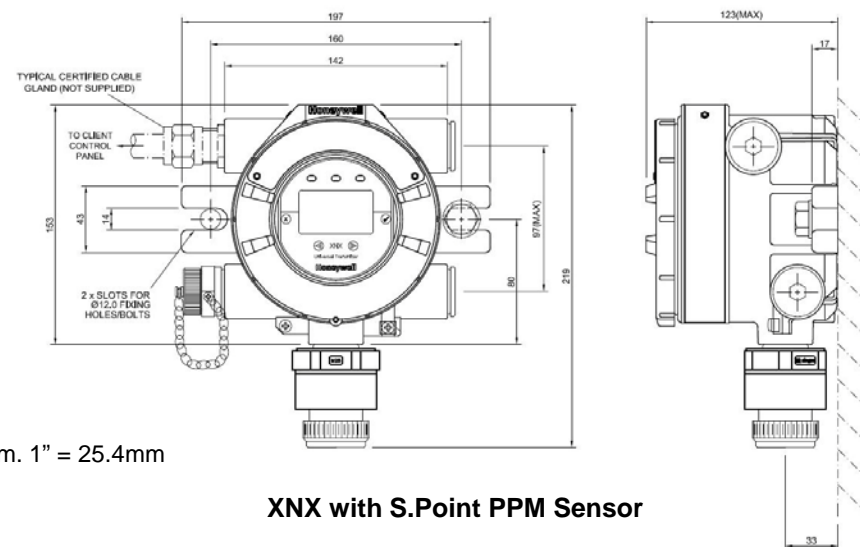
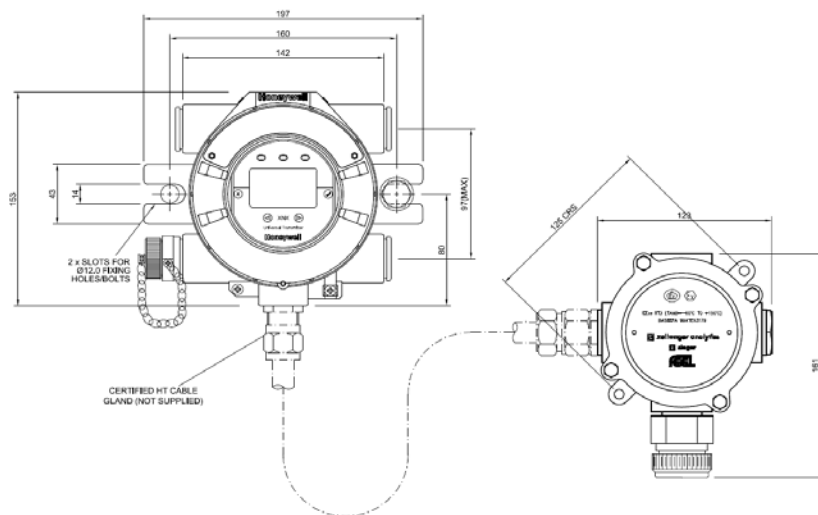## Outline transmitter dimensions:

XNX Mechanical Data

XNX with MPD Sensor

XNX with EC Sensor

XNX with Optima Plus Sensor
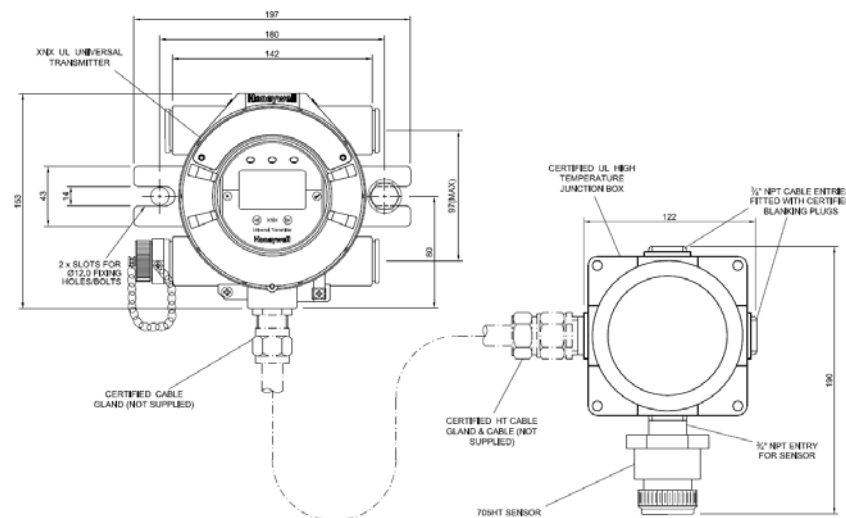
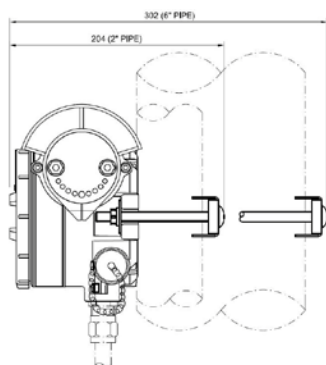ALL DIMENSIONS IN mm. 1" = 25.4mm

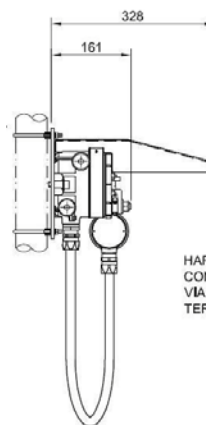**XNX with S.Point PPM Sensor**
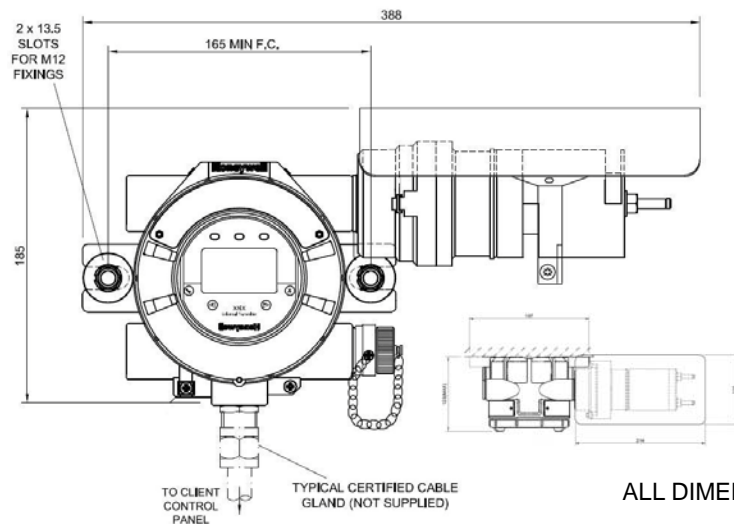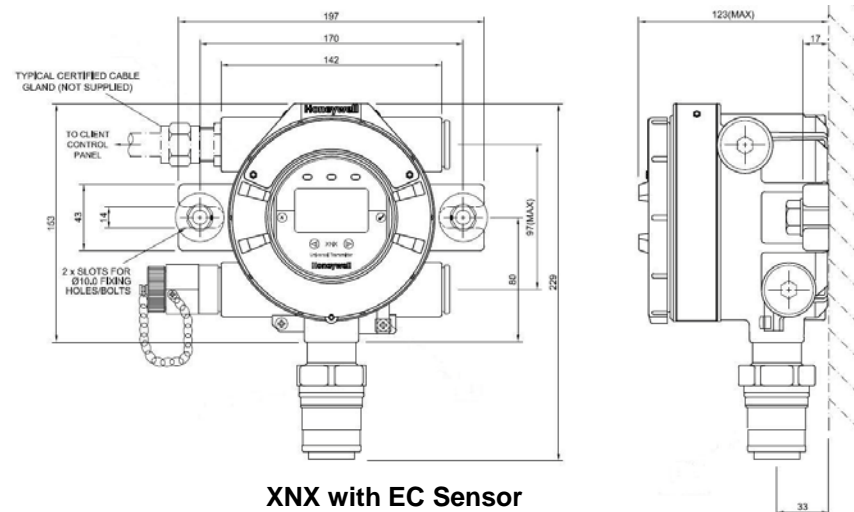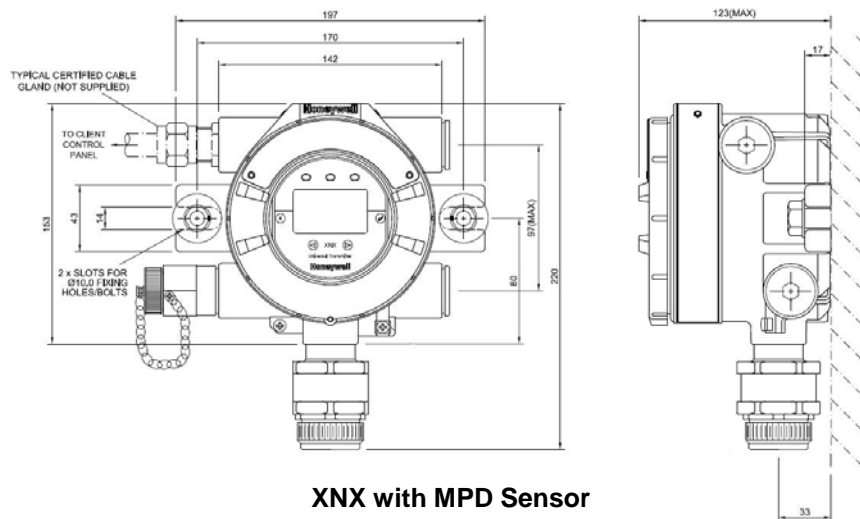
XNX Mechanical Data
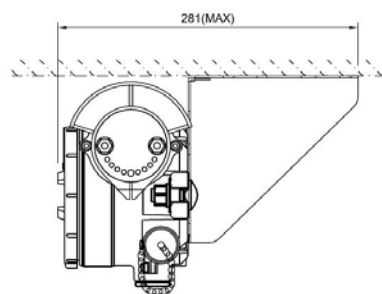
XNX with Remote Sensepoint HT

XNX with Remote 705HT

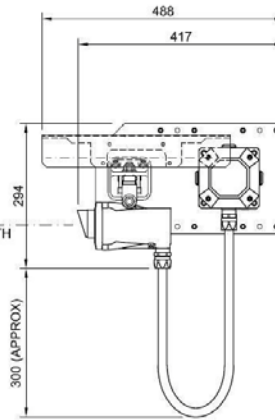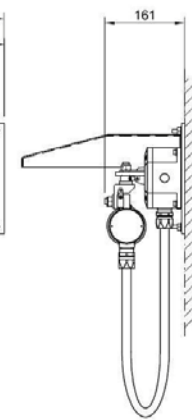**XNX with Optima Plus Pole & Ceiling Mount**

ALL DIMENSIONS IN mm. 1" = 25.4mm
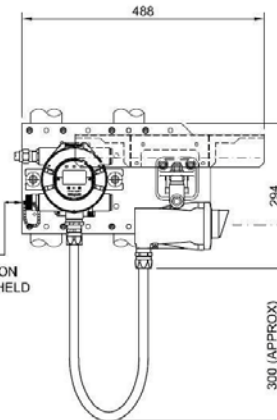
XNX with Searchline Excel

Simple non intrusive operation
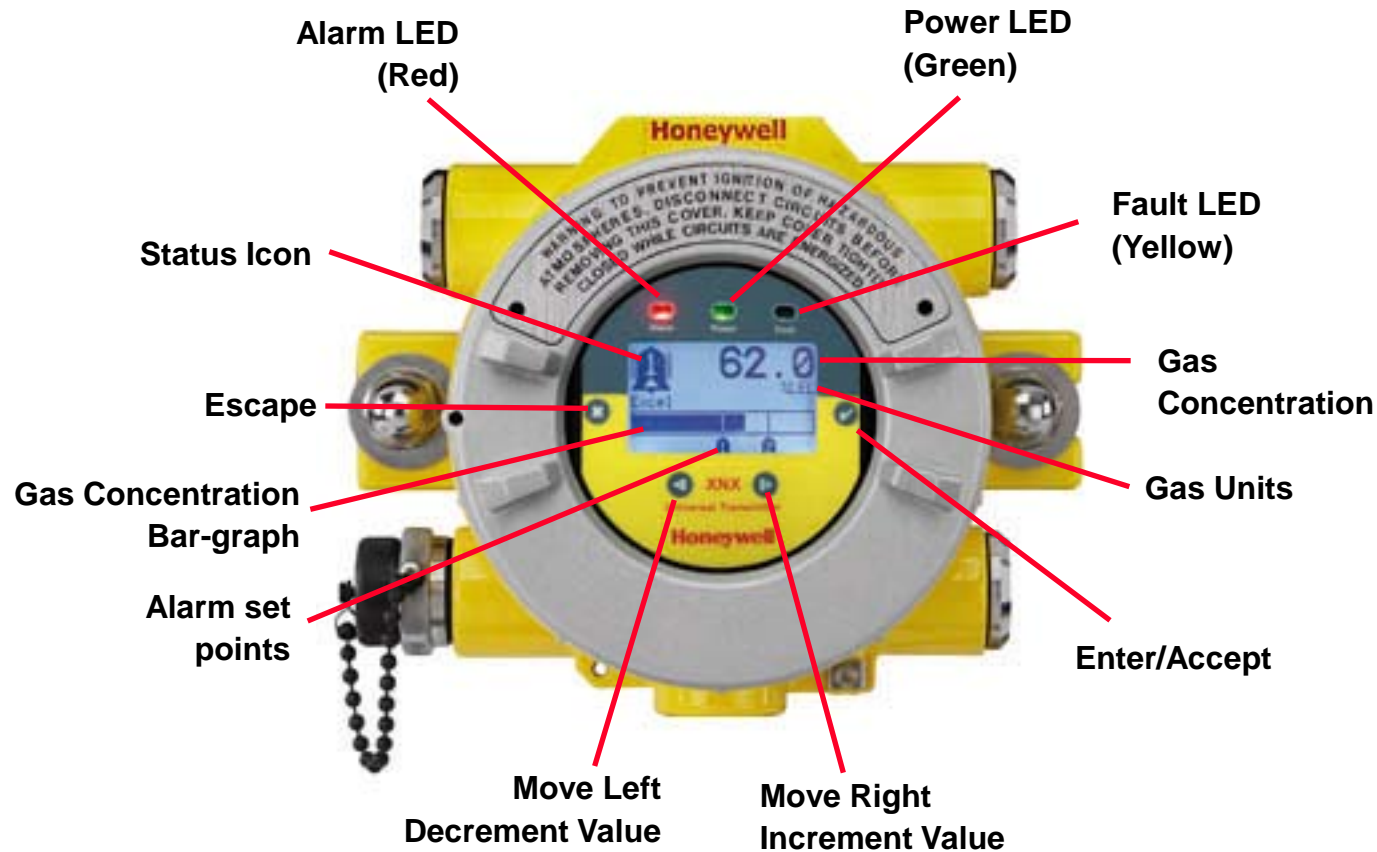
- **Bright powder blue backlit LCD (auto dimming)**
- **Multilingual text, symbols and icons**

- **Simple Magnetic switch operation**
- **Optional local HART® handheld interface**

XNX Universal Transmitter Summary

- **Reduced installation costs**
  - **Common design for all Detectors**
    - Same tools/installation methods reduces install costs

- **Reduced operation costs**
  - **Same user interface for all detectors**
    - Less chance of incorrectly configuring/interpreting readings/messages increases detector up time
    - Reduced training time reduces training costs

- **Reduced maintenance costs**
  - **Replaceable plug in sensors (MPD & EC)**
    - Less time and cost to maintain detectors
    - IS 'hot swap' EC sensor
  - **Many common spare parts**
    - Reduced maintenance/spares stock level and cost

XNX Universal Transmitter Summary

- **Increased safety**
  - Compatible with all Honeywell Analytics gas sensors
    - Allows selection of best sensor technology for each application

- **Easy to integrate**
  - Ability to change configuration as site needs change
    - Choose what's best for your application
    - 4-20mA and HART® as standard
    - Optional relays, Modbus®, local IS HART® port, Foundation Fieldbus™(pending)
    - Start with 4-20mA, then upgrade to Foundation Fieldbus™ when site standard changes
  - Future-proofed for new output standards
    - Hooks for new protocols as they are developed

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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