A universal transmitter for toxic, oxygen and combustible gas detection compatible with all Honeywell gas sensing technologies
The XNX Universal Transmitter marks a new turn in gas detection from Honeywell Analytics. It supports the widest range of sensors on a common platform and offers a modular choice of inputs and outputs.

**High performance**
- Flammable gas detection 0 to 100% LFL/LEL
- Point IR with heated optics provides immunity to poisoning and no hidden faults
- Open-path IR flammable gas detection in LEL-m measurement
- Electrochemical cell offers toxic gas detection in ppm
- IR Cell provides CO₂ and combustible gas monitoring
- Robust and reliable operation in explosive areas and harsh environments

**Flexible Operation**
- 3 versions - supports mV (Catalytic Bead and IR Cell), Electrochemical Cell and IR (point and open-path) gas detection
- Multi-Purpose Detector (MPD) with field serviceable mV, Catalytic bead and IR Cell capability
- 4-20mA with HART® as standard
- Multiple communications options include up to 3 relays, MODBUS® and FOUNDATION® H1 Fieldbus (pending)
- Optional local IS port for handheld HART configurator

**Easy to Use**
- Large, backlit, easy-to-view LCD display offers multi-sensory indicators (visual icons, colored buttons, text, etc.) to display gas and sensor readings
- User interface supported by 8 selectable languages (English, Spanish, German, Italian, Portuguese, French, Russian, Chinese)
- Self-test and fault indication features
- Non-intrusive, one-man operation
- Quick calibration with auto-inhibit

**Easy to Install**
- 3 or 4 wire operation, source, sink or isolated
- Use with conduit or cable installations
- Simple plug-in sensors and replaceable cells
- NEMA 4X IP66 rated for rugged indoor/outdoor use

**Cost Effective**
- Minimal training required
- One-man operation
- Plug-in sensor replacement
- All necessary accessories included

**Applications**
- Offshore Oil & Gas production platforms
- Onshore Oil terminals
- Refineries
- Gas Transmission
- Gas Distribution
- LNG terminals
- Gas storage terminals
- Chemical plants
- Petrochemical plants
- Solvent recovery operations

**XNX Universal Transmitter**

**Universal Gas Sensing Platform**

**Bringing together the best solutions in gas detection**

**Electrochemical**
- Proven electrochemical sensing technology
- Surecell™ electrochemical cells are ideal for hot and humid environments
- Long life sensing cells (typical >2 years)
- Patented ‘Reflex’ sensing element verification diagnostics
- Sensor recognition software auto configures transmitter
- Plug and play factory configured sensors
- Intrinsically safe sensor connection permits hot swap, reducing down time

**Catalytic Bead**
- Supports Honeywell Analytics 705, 705HT, Sensepoint, Sensepoint HT and MPD sensors
- Fast response to wide range of hydrocarbons and flammables

**Infrared (Open Path IR, Point IR, IR Cell)**
- Supports Honeywell Analytics Searchline Excel, Searchpoint Optima Plus
- Fail-safe operation
- Fast speed of response
- Reduced routine maintenance
- Immune to catalytic poisons
- Long operating life
- Works in inert atmospheres

**XNX Technology Enablers**

**Catalytic Bead**
- 705/705HT
- Sensepoint
- Sensepoint HT
- MPD

**IR Cell**
- 705/705HT
- Sensepoint
- Sensepoint HT
- MPD

**Electrochemical**
- ECC Sensors

**Infrared (Point IR)**
- Searchline Excel
- Optima

**mV**

**EC**

**IR**

**XNX Universal Platform**

Photos not to scale.
The XNX’s powerful advanced communications module adds increased functionality and flexibility to a gas detection network. Standard HART communications, along with optional Modbus, Foundation Fieldbus (pending) or relays, interface with a PLC and a host of other protocol compatible devices found in industrial applications.

Back-lit, easy-to-read LCD display with icons includes a broad range of language options including English, Spanish, French, Italian, Portuguese, German, Russian and Chinese to meet global requirements.

The XNX enclosure is available in a painted stainless steel or aluminum housing with a marine grade coating. Five threaded conduit/cable entries are available in Metric or NPT versions, and ruggedized mounting options provide ultimate installation flexibility. Instrumentation built on various sensing technologies can be attached locally to the transmitter or remotely with the appropriate accessories. Inside, customer and sensor connections to the unit are designed to protect against dangerous electrical misconnections. With pending approvals to UL, CSA and ATEX requirements for Hazardous Locations, and IP66/67 rating to protect against dirt/water ingress, the XNX serves the most demanding industrial environments.

Ordering Information
The XNX part numbering system contains all necessary information to convey the product configuration including options. Agency, Port Thread, Enclosure Material, Sensor Personality define the standard unit. Three option fields are used to define optional Relay or Fieldbus interfaces and factory installed local HART®. To order XNX parts, call 800-538-0363.
**Technical Summary**

**XNX Transmitter**

**Material**

- 1080 Aluminum, anodized (2018 painted optional)

**Cable Entries**

- 3 conduit/cable entries – (2 right, 2 left, 1 bottom) Available in 1/2” NPT or M25

**Termination**

- Cage Clamp pluggable Terminal Blocks with retaining screws, 0.35 to 2.5mm² (12-2 AWG)

**Mounting**

- NEMA 4X Enclosure Bracket (ears on casting for u-bolt). Integral cast mounting flanges provide secure mounting to surfaces, channels or up to 6” Pipe.

**User Interface**

- Standard Custom Backlit LCD. 2.5” High Resolution OLED Matrix Display, Discrete Alarm and Status indication. Remote Non-Intrusive 4 button interface magnetic wand access. Optional HART handheld with E Port

**Environmental Protection**

- Standard NEMA over 3-3.4 4-20mA (sink or source), Optional Modbus over RS-485 and Foundation Fieldbus

**Subject to**

- NEMA 4X IP65

**Humidity**

- 20% to 90% RH non-condensing

**Temperature**

- -40°C to +65°C / -40°F to +149°F (sensor dependent)

**Signal & User Interface**

- Standard HART over 3-3.4 4-20mA (sink or source), Optional Modbus over RS-485 and Foundation Fieldbus

- **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 SPDT and 1 x SPNO outputs.

  **Relay Module Connections**

  - Fitted into housing base either at the factory or in the field by qualified service engineer.

  **Display Module & User Interface (Standard)**

  **Display Type**

  - Backlit LCD

  **Information Displayed**

  - Base Information: Gas Reading
  - Gas Name and Units of measurement
  - Alarm and/or fault levels
  - Large Numeric concentration or LEL display
  - Bar graph showing current reading, set points and full scale

  **Faults/Alarms and Security settings**

  - Ultra low level operated internal switch for setup, calibration and configuration

  **Configuration Status Indication**

  - Event history stores Time and Date of all Alarm, Diagnostic, Configuration events

**Power**

- 110V to 32V (24V nominal)

**Hazardous Area Approvals (Pending)**

- ATEX (Ex II 2 G D, EEx [ia] IIC T5 (Tamb -40°C to +65°C)
- IIA, Class I Div 1, Group B, C, and D / Class I, Zone 1
- 4 Ex 4 ATEX IIC T5 (Tamb -40°C to +65°C)
- CSA Class I Div 1, Groups B, C, and D (Tamb -40°C to +65°C)

**Performance Approvals (Pending)**

- **HART Interface**

  - Foundation Fieldbus compliant digital communications interface enables connection of the XNX transmitter to a multi-drop Foundation Fieldbus H1 network.

  **Modbus RTU Module (Optional)**

  - Provides standard communication output i.e. 4-20mA with HART.

  **Function Supported**

  - Modbus RTU

  **Layer**

  - TCP / IP

  **Connections**

  - Sig+, Sig-, and Screen

  **Maximize**

  - 5V, 10mA (non inductive load)

  **HART Signal Type**

  - 4-20mA signal level

  **Total Addressable**

  - 256

**Display Functionality**

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**Foundation Fieldbus Module (Optional)**

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**Modbus RTU Module (Optional)**

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**Number of Nodes**

- 32

**functions supported**

- Gas Reading
- Gas Name and Units of measurement
- Instrument status (OK, warning, fault, over-range)
- General Device Information
- Remote zero and span calibration (detector dependent)
- Fault and Alarm History
- Zone Calibration
- Calibrate and Configuration status
- Alarm: Fault

**Further Information**

- For available information request a quote through your Honeywell Analytics sales person.

- *Foundation Fieldbus is not available at time of publication. Please call your Honeywell Analytics sales person.*

- **HART®** is a registered trademark of Honeywell International.

- **Foundation Fieldbus** is a trademark of Fieldbus Foundation.

- **Modbus** is a trademark of Schneider Automation Inc.

- **Foundation Fieldbus** is a trademark of Fieldbus Foundation.

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- CSA Class I Div 1, Groups B, C, and D (Tamb -40°C to +65°C)
- Other – EC50150 (Safety, SC 2B, EC92/005/D)
## Honeywell Analytics Lines of Business

### Commercial
Vulcain-brand gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

### Industrial
Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

### Portables
Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets

### High Tech/Government
A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

### Technical Services
24/7 global network includes post-sales service and Systems Integration teams

» Emergency call out, service contracts, on/off-site repair, training and commissioning

» Complete range of spares, consumables and accessories

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**Authorized Distributor:**
GasDetectorsUSA.com
Houston, TX USA
832-615-3588
sales@GasDetectorsUSA.com

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While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.