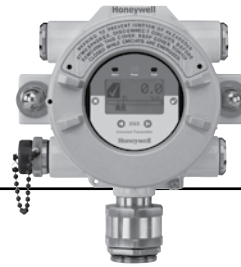


XNX™ SPECIFICATIONS



Universal Transmitter

| General Specifications | |
|---|--|
| Material | LM25 Aluminum, painted (SS316 painted optional) |
| Cable Entries | 5 conduits/cable entries – (2 right, 2 left, 1 bottom) Available in ¾" NPT, or M25 |
| Termination | Cage Clamp pluggable Terminal Blocks with retaining screws, 0.5 to 2.5mm (12-28 AWG) |
| Mounting | Integral cast mounting tabs provide secure mounting to surfaces and channel. Can be mounted to 2 to 6 inch pipe or ceiling with corresponding mounting kit (optional) |
| User interface | Standard Custom Backlit LCD. 2.5" High Resolution DOT Matrix Display. Discrete Alarm and Status indication. Reliable Non-Intrusive 4 button interface magnetic wand access. |
| Signal | 0-22mA analog current loop output with HART (version 6) compatible standard. Optional relay or Modbus. |
| Environmental | |
| Temperature | -40°C to +65°C / -40°F to +150°F (sensor dependent) |
| Humidity | 20 to 90% RH non-condensing |
| IP Rating | NEMA 4X IP66 |
| Options | |
| | Relay Option 3 - SPDT (2 Alarm, 1 Fault) Relays; 250 VAC 5A, 24VDC 5A (Resistive) with External Reset Input or Modbus option: RTU protocol; selectable Baud Rate Optional HART with IS Port |
| Operating Voltage | |
| | 18-24 VDC Nominal (EC & mV units 16-32 VDC; IR units 18-32 VDC (Class 2 supply required) |
| Power Consumption | |
| | XNX used with: electrochemical sensor: 6.2 watts; millivolt (catalytic bead or IR cell): 6.5 watts; point Infrared sensor (Searchpoint Optima): 9.7 watts; open-path Infrared (Searchline Excel): 13.2 watts |
| Hazardous Area Approvals (Transmitter/Sensor Dependent) | |
| | UL, cUL classified: UL 1203 and 913 Seventh edition; CSA, CSA 22.2 No. 30, CSA 22.2 No. 157 Class 1, Division 1, Groups B, C, D / Class 1, Zone 1, Groups IIB + H2 T4 Tamb -40c to 65c DEMKO* IEC 60079-0, 4th Ed; IEC 60079-15th Ed; IEC 60079-11 5th Ed. NCC INMETRO* Type Approval: EX [ia]d IIB + H2 T4 Tamb -40c to 65c |
| Performance Approvals (Sensor Dependent) | |
| | Flammable gases: CSA 22.2 No. 152, FM* 6310, 6320, DEKRA/EXAM* IEC/EN 60079-29-1, EN 61779-4:2000 Toxic and Oxygen FM* ISA 92.0.01; DEKRA/EXAM* EN 45544:2000, EN 50104: 1999 Functional Safety: TUV EN 61508 SIL 2 Component Certification |
| Display Module & User Interface (Standard) | |
| Display Type | Backlit LCD |
| Information Displayed showing | Base Information: Gas Reading; Gas Name and Units of measurement; Fault and Alarm Status; Large Numeric concentration or LEL display; Bar graph current reading, set points and full scale. Fault/Alarm and Operating Status Indication: Security settings allow multi level operator access for set-up, configuration and calibration Event history stores Time and Date of all Alarm, Diagnostic, Configuration events |
| Interface | Magnetic wand with terminal screwdriver (supplied each unit) |
| 4-20mA & HART (Standard Supply) | |
| Description | Fully configurable isolated 4-20mA & HART output module providing current sink, current source and isolated modes of operation. (supports HART 6.0 protocol) |
| Non-intrusive Interface | Optional local IS port to enable HOT connection of a HART handheld configurator |
| Operating Modes | Current sink / Current source / Isolated current sink /Conventional or with HART data |
| Output Range | 0 to 22mA |
| 4-20mA Signal Accuracy | +/- 1% FS |
| Max loop resistance | 600 Ohms at 24Vdc loop supply |
| Functions Supported via HART | Gas Reading Gas Name and Units of measurement 4-20mA signal level General/Device Information Installation Configuration Forcing of 4-20mA output |
| | Detailed Sensor Information Including: Optical Signal Level Dynamic Reserve (Excel Only) Raw reading 24V supply voltage Temperature |
| | RTC (Excel Only) Calibration and Configuration status Detailed Fault and Warning Information Fault and Alarm History Zero Calibration |

* pending

| 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. | |
| Environmental Protection | Terminals protected by cover to IP 66 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 relays. Single Pole Double Throw SPDT. Option PCB Factory installed in display module. | |
| Installation | Fitted into housing base either at the factory or in the field by qualified service engineer. | |
| Rating | Maximum: 240 VAC, 5A (non inductive load) / 24 VDC 5A CES | Minimum: 5V, 10mA (non inductive load) |
| Electrical Connections | Fault: Common, Normally Open, Normally Closed Alarm 1: Common, Normally Open, Normally Closed Alarm 2: Common, Normally Open, Normally Closed | |
| Configuration | Default | Configurable Options |
| | Fault Relay: Normally energized Non latching Signal inhibit as fault Alarm 1 / 2 Relays: Normally de-energized Non latching Alarm rising on gas reading Alarm level 20% and 40% of scale Hysteresis of 2% of scale | Fault Relay: Normally energized / normally de-energized None Enable/disable A1 / A2 Relays: Normally energized / de-energized Latching / non latching Alarm on rising / falling Alarm level 10% to 90% of full scale |
| Re-setting of Latched Relays | Easily accessible interface on display (if used) or via HART interface (local or remote) | |
| Note | Use of the Relay Module or 'Other' Communications Module (E.g. Foundation Fieldbus) is mutually exclusive. However, relay function may be used in conjunction with standard communication output i.e. 4-20mA with HART. | |
| Relay Specific Functions via HART Interface | Relay status information / Reset of latched conditions / Configuration of relays Forcing of relay state Reset through non intrusive User Interface. Remote Switch closure using Remote Reset input Remotely through HART | |
| Modbus RTU Module (Optional) | | |
| Description | The Modbus output module provides an Isolated RS485 output to enable the connection of the XNX transmitter to a multi-drop Modbus network | |
| Installation | Fitted into housing base either at the factory or in the field by qualified service engineer. | |
| Connections | RS485+, RS485-, Drain | |
| Physical Layer | Isolated RS485, 1200 to 19.2K Baud | |
| Maximum No. of Nodes | 254 XNX compatible transmitters only | |
| Protocol | Modbus RTU | |
| Functions Supported | As per Foundation Fieldbus Module (Optional) - see above Foundation Fieldbus Module (Optional) | |
| Description | Foundation Fieldbus compliant digital communications interface enables connection of the XNX transmitter to a multi-drop Foundation Fieldbus H1 network. | |
| Installation | Fitted into housing base either at the factory or in the field by qualified service engineer. | |
| Connections | Sig+, Sig- and Screen | |
| Physical Layer | Conforms to IEC 1158-2 and ISA 50.02, 31.25Kbits/s | |
| Maximum No. of Nodes | 32 | |
| Functions Supported | Gas Reading Gas Name and Units of measurement Instrument status (OK, warning, fault, over-range) General/Device Information Remote zero and span calibration (detector dependent) | Detailed Sensor Information Including: Optical Signal Level Dynamic Reserve (Excel Only) Raw reading 24V supply voltage Temperature RTC (Excel Only) Calibration and Configuration status |
| | | Detailed Fault and Warning Information: Fault and Alarm History Zero Calibration |

Further information is available upon request.

* Not available at time of publication. Please call your Honeywell Analytics sales person.

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