

June 2025

## ► Description

These 2-wire (loop-powered) I/P transmitters accept a current signal (such as 4-20mA) from a DCS, PLC or PC-based control system. They convert the current signal to a pneumatic signal (3-15psig, 0.2-1bar, 20-100kPa, etc.) to provide precise, proportional control of valves, actuators and other pneumatically-controlled devices.

The economical IPH<sup>2</sup> (Type 4X) is watertight, dust-protected, and resistant to corrosion and chemicals. In addition to meeting Type 3X/4X requirements, the IPX<sup>2</sup> can be installed in explosion-proof environments.

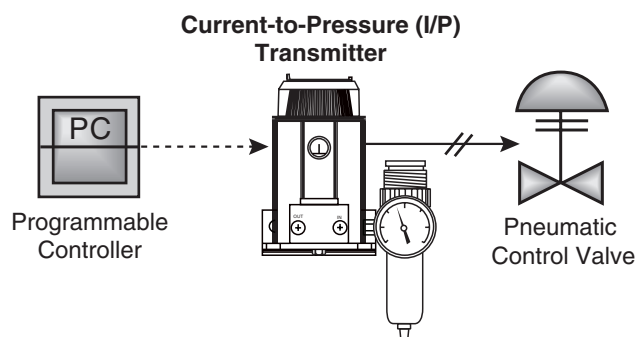
Both units are available with an optional coalescing filter/regulator that combines an air filter and miniature supply line regulator with a pressure gauge that reads in both psig and bars.

### Approved for Use with Natural Gas

Special design, construction and materials allow the model **IPX<sup>2</sup> with the -NG1 or -NG2 option** to be used with natural gas as its pneumatic supply (commonly referred to as sweet gas consisting of up to 20ppm of H<sub>2</sub>S).

Meets the US Environmental Protection Agency (EPA) requirement for the oil and gas industry (New Source Performance Standards Subpart OOOO, EPAHQAR20100505)\*.

**Figure 1.** I/P transmitters accept a current input and convert it to a proportional pneumatic control signal.



### Certifications

**ANZEx**



Check the listing on Page 4 for full certification details.

\*Maximum natural gas bleed rate is less than 6SCFH with a 3-15psi output and 17psi natural gas supply.



Compact, rugged, and highly accurate, the IPH<sup>2</sup> (right) and IPX<sup>2</sup> (top) are ideal for installation in harsh field environments.

## ► Features

- **Wide variety of input and output choices.** Available with 4-20mA or split range inputs, and 22 direct and reverse output ranges. Reverse output is switch selectable on IPX<sup>2</sup>. Custom ranges are also available.
- **Low air consumption and high output volume.** The IPH<sup>2</sup> and IPX<sup>2</sup> output as much as 300SCFH and consume as little as 0.08SCFM.
- **Accurate and stable.** Featuring exceptional  $\pm 0.25\%$  of span accuracy and six-month stability, they are ideal for precise applications in difficult to access locations.
- **Immune to supply pressure variation.** Maintain incredible accuracy even when the supply pressure fluctuates between 20 and 35psig.
- **Removable electronics module.** In abnormal conditions where a liquid "slug" is present in the air/gas supply of the IPX<sup>2</sup>, the electronics module can be removed to aid in recovery by allowing accumulated liquid to drain more effectively.
- **Clog Resistant Filtered Nozzle and Orifice.** A larger orifice, combined with an easily replaceable internal filter protects against clogging caused by debris.
- **RFI/EMI protection.** Special circuit and enclosure designs protect against the harmful effects of radio frequency and electromagnetic interference.

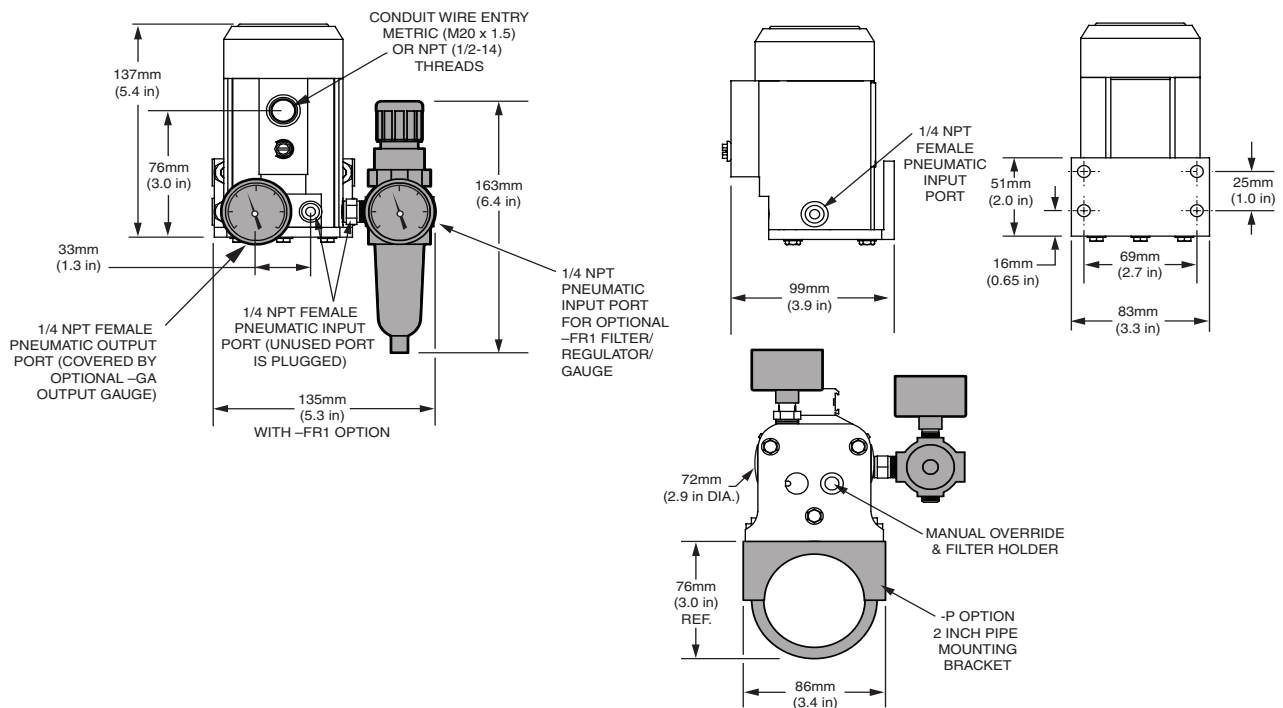
# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

## ► Specifications

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <p><b>Performance</b></p> <p><b>Accuracy:</b> &lt;±0.25% of span including the combined effect of linearity, hysteresis and repeatability (between 0 and 3psig output, error will not exceed ±1.0% of span)</p> <p><b>Stability:</b> Not to degrade from stated accuracy for six months</p> <p><b>Step Response:</b> &lt;0.25 seconds into 100ml load (6 in<sup>3</sup>) from 10% to 90% of span; Not guaranteed below 3psig output</p> <p><b>Supply Pressure Effect:</b> Negligible from 20-35psig, steady pressure</p> <p><b>Air Capacity:</b> 5.0SCFM minimum (20psig supply, 0psig output)</p> <p><b>Relief Capacity:</b> 2.5SCFM minimum (15psig output)</p> <p><b>Air Supply:</b> Instrument air only, 20-35psig. (Must be 5psig greater than maximum output)</p> <p><b>Gas Supply with -NG1 or -NG2 Option:</b> 17-35psig. Same cleanliness as instrument air. H<sub>2</sub>S not to exceed 20ppm</p> | <p><b>Performance (Continued)</b></p> <p><b>Voltage Drop:</b> 5V, maximum</p> <p><b>Air Consumption (Dead-ended):</b> At 3-15psig output 20psig supply, average steady state consumption* of 3.9SCFH (min 3.1SCFH@ 3psig, max 4.8SCFH@15psig); 35 psig supply, max 5.7SCFH @15 psig output; 35 psig supply, max 8.3SCFH @30 psig output.</p> <p><b>Natural Gas Consumption (Dead-ended):</b> At 3-15psig output 20psig supply, average steady state consumption* of 4.7SCFH, (min 3.7SCFH@ 3psig, max 5.8SCFH@15psig); 35 psig supply, max 10 SCFH @30 psig output;</p> <p><b>Mounting Position Effect:</b> Negligible, unit can be mounted in any position; refer to user manual for special conditions of use with natural gas supply or outdoor environments.</p> | <p><b>Ambient Conditions</b></p> <p><b>Operating &amp; Storage Range:</b> -40°C to +85°C (-40°F to +185°F)</p> <p><b>Ambient Temperature Effect:</b> &lt;±0.025% of span/°C, maximum from -20°C to 80°C; &lt;±0.1% of span/°C, maximum</p> <p><b>Ambient Temperature Reference Conditions for Specifications:</b> 25°C</p> <p><b>RFI/EMI Effect:</b> &lt;±0.25% of span change at in field strengths of 10V/m@ frequencies of 20-1000MHz</p> <p><b>Vibration Effect: Meets ANSI/ISA-75 13.01-1996 (R2007) 5.3.5 as follows:</b> 5-15Hz, 2mm peak-to-peak; 15-150Hz, 1g; 150-2000Hz, 0.5g</p> <p><b>Relative Humidity:</b> 0-100%, non-condensing</p> <p><b>Adjustment</b></p> <p><b>Zero &amp; Span:</b> Screw adjusts zero or span by ±10% minimum, non-interactive</p> <p><b>Weight</b></p> <p>IPH<sup>2</sup>: 1.14kg (2.5 lbs)<br/>IPX<sup>2</sup>: 2.4kg (5.3 lbs)</p> <p><small>*Average flow rate determined at 9 psig output</small></p> |
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Figure 2. IPH<sup>2</sup> Dimensional Diagram



# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

## ► Ordering Information

| Unit                                                                                           | Input                                                                                                 | Output*                                                                                                                                                                                                | Supply Pressure** | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Housing                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPH <sup>2</sup><br>Type 4X<br>Current-to-<br>Pressure<br>Transmitter                          | 4-20MA<br>4-12MA<br>12-20MA<br>into<br>250 ohms<br>maximum<br><br>Custom<br>ranges also<br>available. | 0-20PSIG                                                                                                                                                                                               | 25PSI             | -FR1 Coalescing filter, miniature supply line regulator and pressure gauge that reads 0-60psig and 0-4bars (Not compatible with -NG options)<br>-GA1 Output gauge (reads in 0-30psig and 0-2bars); (Not compatible with -NG options)<br>-VTD Standard Factory Calibration with NIST Test Data Report                                                                                                                                                                                                                                                                                                   | IPH <sup>2</sup> ENCLOSURES:<br>WDNS Aluminum body with polycarbonate cover; NPT pneumatic and NPT electrical entry ports<br>WDNA Aluminum body with aluminum cover; NPT pneumatic and NPT electrical entry ports<br>WDMS Aluminum body with polycarbonate cover; M20 x 1.5 metric, pneumatic and electrical entry ports<br>WDMA Aluminum body with aluminum cover; M20 x 1.5, pneumatic and metric electrical entry ports |
|                                                                                                |                                                                                                       | 1-17PSIG                                                                                                                                                                                               | 22PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 3-15PSIG                                                                                                                                                                                               | 20PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 3-16.6PSIG                                                                                                                                                                                             | 22PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 3-18PSIG                                                                                                                                                                                               | 23PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 3-27PSIG                                                                                                                                                                                               | 32PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 6-30PSIG                                                                                                                                                                                               | 35PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | .2-1BAR                                                                                                                                                                                                | 1.4BAR            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 20-100KPA                                                                                                                                                                                              | 140KPA            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | .2-1KGCM2                                                                                                                                                                                              | 1.4KGCM2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | .02-.10MPA                                                                                                                                                                                             | .14MPA            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | Reverse Output†: (IPX <sup>2</sup> only)                                                                                                                                                               |                   | IPX <sup>2</sup> ONLY:<br><br>-NG1 Natural Gas. Sealed electrical fitting and vent are on opposite sides of IPX <sup>2</sup> .<br>-NG2 Natural Gas. Sealed electrical fitting and vent are on the same side of IPX <sup>2</sup> .<br>-CAN cCSA approved for Intrinsically-Safe, Explosion Proof, Non-Incendive and General Locations. Includes warnings in French and English. For Canadian institutions only.<br>-ISA ANZEx approved Intrinsically Safe and Type n<br><br>Note: The standard IPX <sup>2</sup> tag includes approval markings for Canada, Europe and US with warnings in English only. |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 20-0PSIG                                                                                                                                                                                               | 25PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 17-1PSIG                                                                                                                                                                                               | 22PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 15-3PSIG                                                                                                                                                                                               | 20PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 16.6-3PSIG                                                                                                                                                                                             | 22PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 18-3PSIG                                                                                                                                                                                               | 23PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 27-3PSIG                                                                                                                                                                                               | 32PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 30-6PSIG                                                                                                                                                                                               | 35PSI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | 1-.2BAR                                                                                                                                                                                                | 1.4BAR            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 100-20KPA                                                                                      | 140KPA                                                                                                |                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IPX <sup>2</sup><br>Explosion-<br>Proof and Type<br>3X* Current-<br>to-Pressure<br>Transmitter |                                                                                                       | 1-.2KGCM2                                                                                                                                                                                              | 1.4KGCM2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | .10-.02MPA                                                                                                                                                                                             | .14MPA            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       | *The unit's output must match the supply pressure to its right.<br>**Supply Pressure is typically 5psi (0.3bar) higher than output pressure.<br>†On loss of mA input, the output will go to 0 PSI out. |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       |                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                |                                                                                                       |                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                                                                                                       |                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| *Type 4X for -NG1 and NG2 options                                                              |                                                                                                       |                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |

**When ordering, specify:** Unit / Input / Output / Supply Pressure / Options [Housing]  
**Model number example:** IPH2 / 4-20MA / 3-15PSIG / 20PSI / -FR1 [WDNA]  
 IPX2 / 4-20MA / .2-1BAR / 1.4BAR / -NG1 [EXI]  
 IPX2 / 4-20MA / .2-1BAR / 1.4BAR / -NG1 [NC]

# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

## Certifications (IPH<sup>2</sup> and IPX<sup>2</sup>)

**ANZEx** TestSafe/ANZEz Scheme  
Type n (IPX<sup>2</sup>: Air only)  
Ex nA IIC T6@55°C

**Intrinsically-Safe**  
Ex ia IIC T4@85°C /T5@70°C



**CE Conformant – EMC Directive 2014/30/EU**  
EN61326-1

**Environmental Protection:**  
IPH<sup>2</sup> Type 4X  
IPX<sup>2</sup> (-Air), Type 3X & IP56  
IPX<sup>2</sup> (-NG), Type 4X & IP66

## Certifications (IPX<sup>2</sup> only)



**Canadian Standards Association (CSA)**  
**Non-Incendive, Type n (Air only)**  
Class I, Division 2, Groups A, B, C & D  
Ex nA IIC

**Intrinsically-Safe**  
Class I, Divisions 1 & 2, Groups A, B, C & D  
Class II, Divisions 1 & 2, Groups E, F & G  
Class III, Divisions 1 & 2  
Ex ia IIC; Zone 0, AEx ia IIC T4/T4A/T5

**Explosion/Flame Proof**  
Class I, Division 1, Groups A, B, C & D  
Class II, Divisions 1 & 2, Groups E, F, & G  
Class III, Divisions 1 & 2  
Ex d IIC; Zone 1, AEx d IIC T4/T4A/T5

**Temperature Codes: T4/T5/T6**  
T4@85°C/T5@70°C/T6@55°C  
Maximum Operating Ambient

**Temperature Codes: T4/T4A/T5**  
T4@85°C/T4A@70°C/T5@55°C  
Maximum Operating Ambient



**SIRA/ATEX Directive 2014/34/EU**  
**Intrinsically-Safe**  
II 1G Ex ia IIC T4 Ga  
Ta = -40°C to +85°C

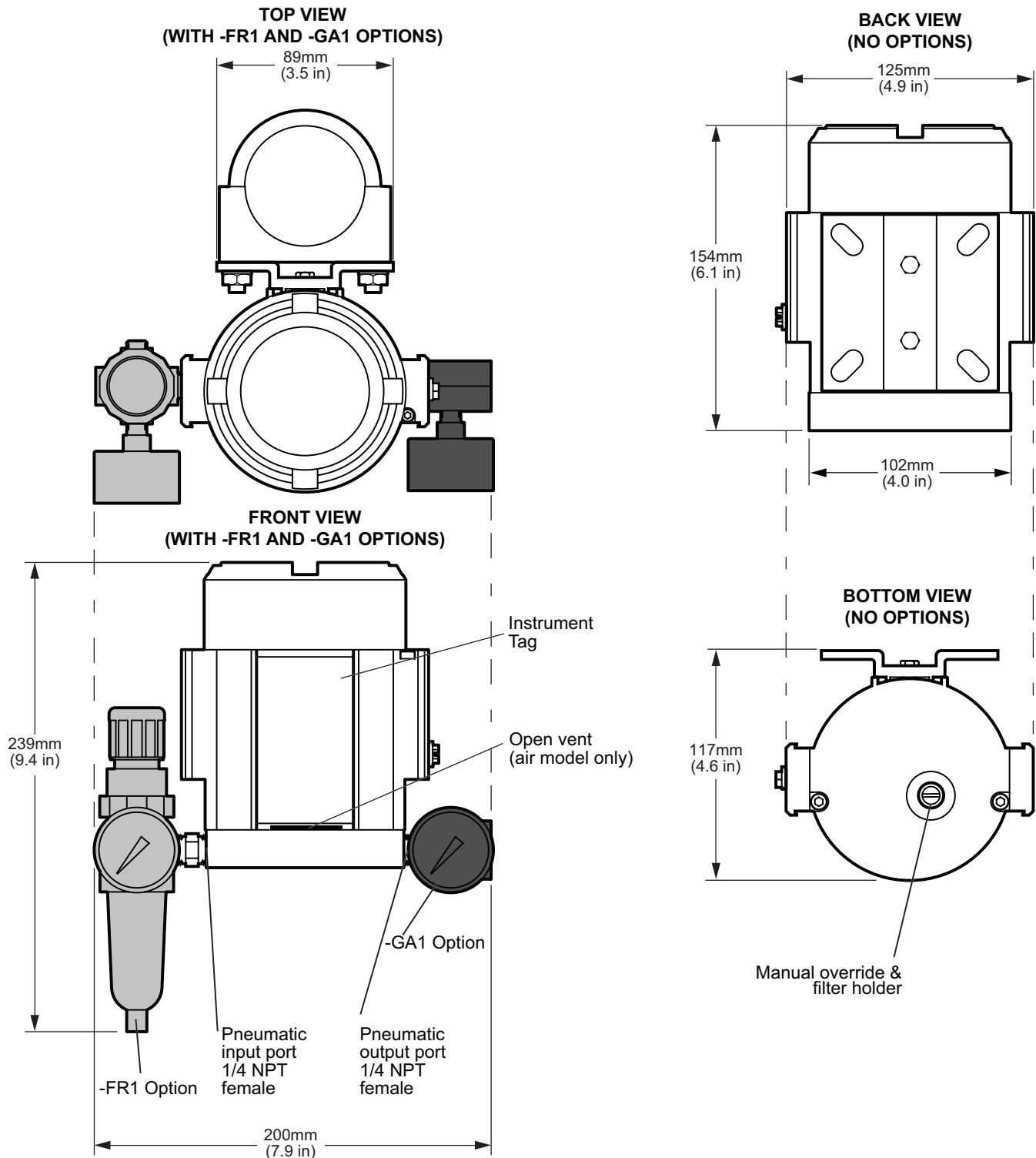
**MII/ATEX Directive 2014/34/EU**  
**Type n (Air only)**  
II 3G Ex nA IIC T6

**SIRA/ATEX Directive 2014/34/EU**  
**Flame-Proof (Air only)**  
II 2 G Ex d IIC T4 Gb  
II 2 D Ex tb IIIC, T127°C Db  
Ta = -40°C to +85°C

# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

Figure 3. IPX<sup>2</sup> Dimensional Diagram



# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

Figure 4. IPX<sup>2</sup> with -NG1 & -NG2 Option Dimensional Diagram

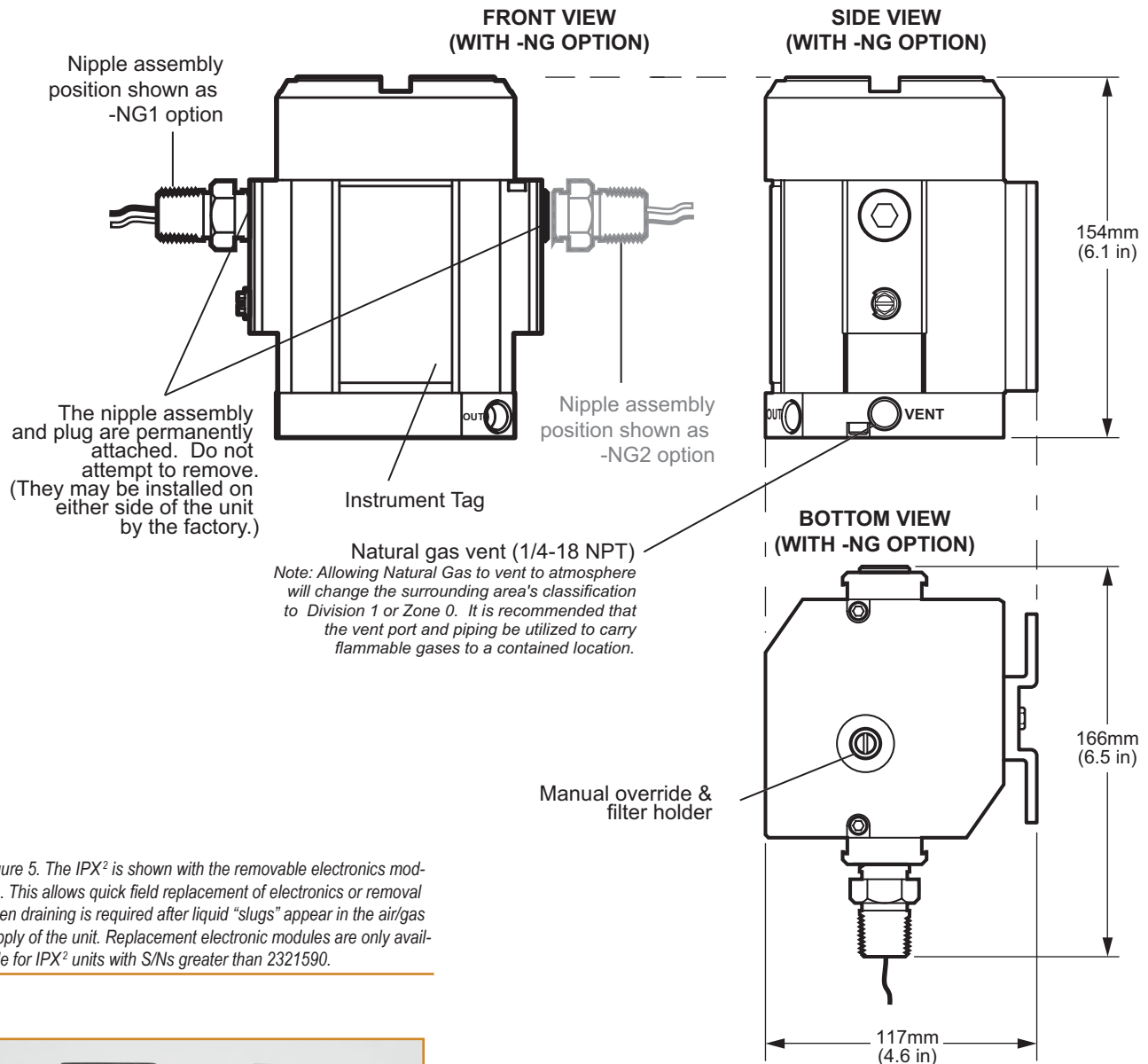


Figure 5. The IPX<sup>2</sup> is shown with the removable electronics module. This allows quick field replacement of electronics or removal when draining is required after liquid "slugs" appear in the air/gas supply of the unit. Replacement electronic modules are only available for IPX<sup>2</sup> units with S/Ns greater than 2321590.



## Current-to-Pressure Product Solutions

### IPT<sup>2</sup> DIN-style Current-to-Pressure Transmitter



The high-performance IPT<sup>2</sup> Current-to-Pressure (I/P) DIN-style Transmitter converts a current signal to a pneumatic signal so that an electronic-based system such as a DCS, PLC, or PC can control a pneumatic actuator, valve, or damper drive. Available models accept a wide range of current inputs (4-20mA, 4-12mA, and 12-20mA) and provide a proportional pneumatic signal (3-15psig, 0.2-1 Bar, 20-100kPa, etc.).

#### Features:

- 22 direct and reverse output ranges
- Low air consumption and high output volume
- High accuracy and fast response
- Immune to supply pressure variation
- Clog-resistant design, clean start up
- RFI/EMI protection

### PIT, PIF & PIX Pressure-to-Current Transmitters



This rugged and reliable family of pressure-to-current transmitters provide an economical solution when a pneumatic device must interface with a data acquisition control system, controller, recorder, or other electronic instrument. Compact, yet powerful, these units accept a pneumatic signal (3-15 psig, 0.2-1 bar, 3-27 psig, etc.) and accurately convert it to a proportional 4-20mA (or 10-50mA) output.

#### Features:

- Control Room and Field Mounting with a wide variety of housings
- Perform with exceptional accuracy ( $\pm 0.2\%$  of span) even in unstable environments
- Self-sealing pneumatic connection allows disconnection with no air loss

# IPH<sup>2</sup> & IPX<sup>2</sup>

Type 4X & Explosion-Proof  
Current-to-Pressure (I/P) Transmitters

## Current-to-Pressure Product Solutions

### PIH Field-Mount Pressure-to-Current Transmitter



The durable PIH Pressure-to-Current Transmitter provides an economical solution for any process that requires a rugged instrument capable of interfacing a pneumatic device with a data acquisition/control system, controller, recorder, or other electronic instrument. This compact yet powerful unit accepts most pneumatic signals (3-15 psig, 0.2-1 bar, 3-27 psig, etc.) and accurately converts them to a proportional 4-20mA output.

#### Features:

- Water tight, dust-tight, and resistant to corrosion and chemicals
- High-technology sensor allows the PIH to perform with exceptional accuracy in unstable environments
- RFI/EMI protection
- Reverse Output Option



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