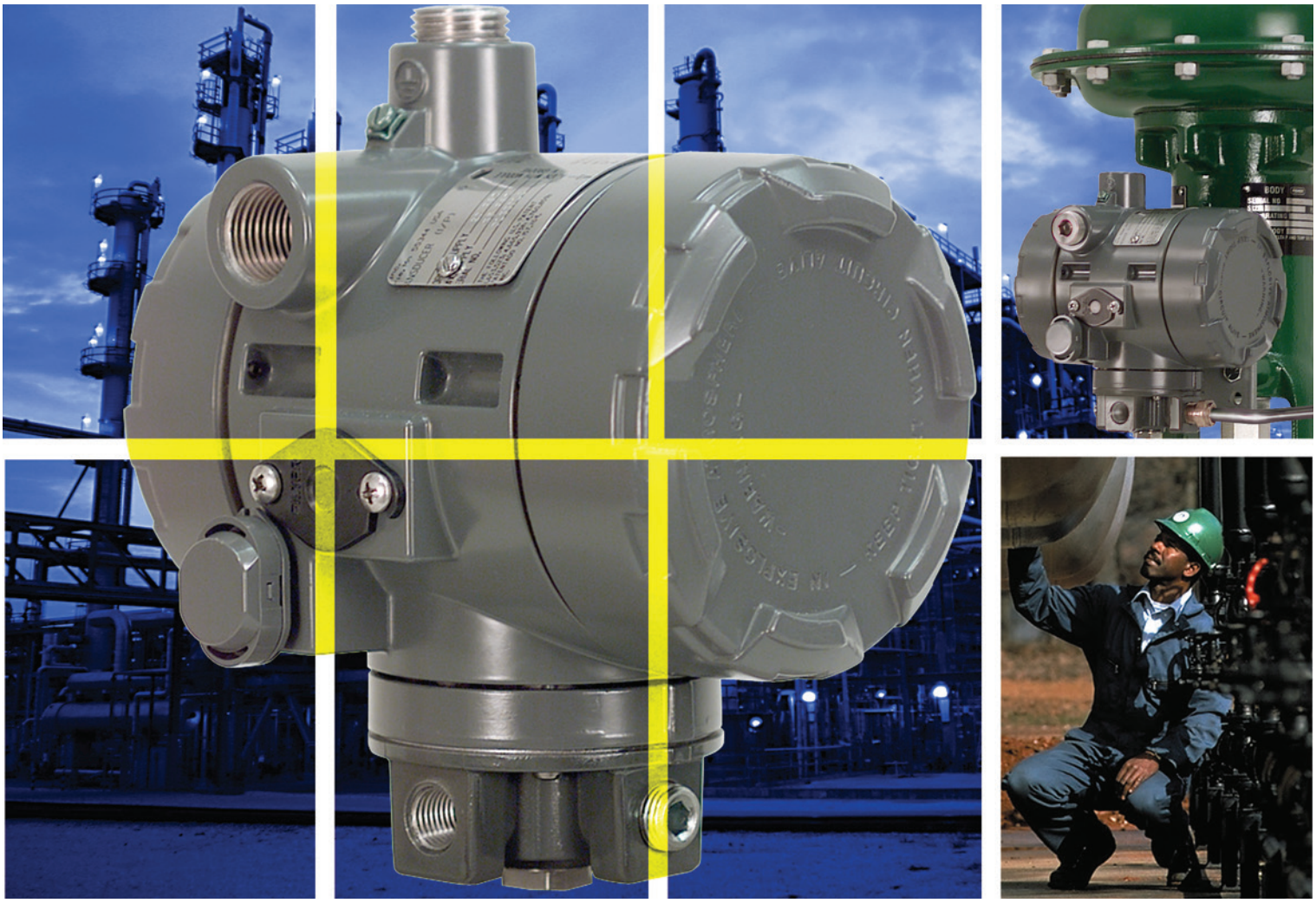
Fisher® i2P-100 Electro-Pneumatic Transducer

For Safer Operations and Improved Uptime



FISHER®

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For safer operations and improved uptime

The major issue with the design of electro-pneumatic transducers is the balance between emissions and uptime. If designed to minimize emissions, then the device can be prone to plugging, especially if natural gas is being used as the pneumatic supply.

The Fisher i2P-100 transducer is designed to meet environmental concerns, but optimized to provide maximum uptime. It features dual compartments with an "explosive-fluid seal" to prevent natural gas from migrating to the electrical conduit. Additional advantages offered by the i2P-100 transducer include corrosion resistance, tolerance to dirty supply and vibration resistance.

These features give the i2P-100 transducer outstanding ability to operate safer while improving uptime.

Installation

Each i2P-100 converts a millampere input signal to a pneumatic signal to operate a valve actuator, damper drive or valve positioner. It can be mounted directly to the valve actuator case or to a pipestand or surface.

Approved For Use With Natural Gas

The i2P-100 transducer is ideal when using natural gas as the pneumatic supply, such as in gas production facilities, compressor stations and offshore platforms.

Corrosion Resistance

Converter module coils have a corrosion resistant coating, and all flexures are gold plated to provide protection from hostile environments. Dual compartment housing with an "explosive-fluid seal" separates the pneumatic and electronic components.

The features, shown below, give the i2P-100 transducer outstanding ability to operate safer while improving uptime.

Plug-In Printed Wiring Board Assembly

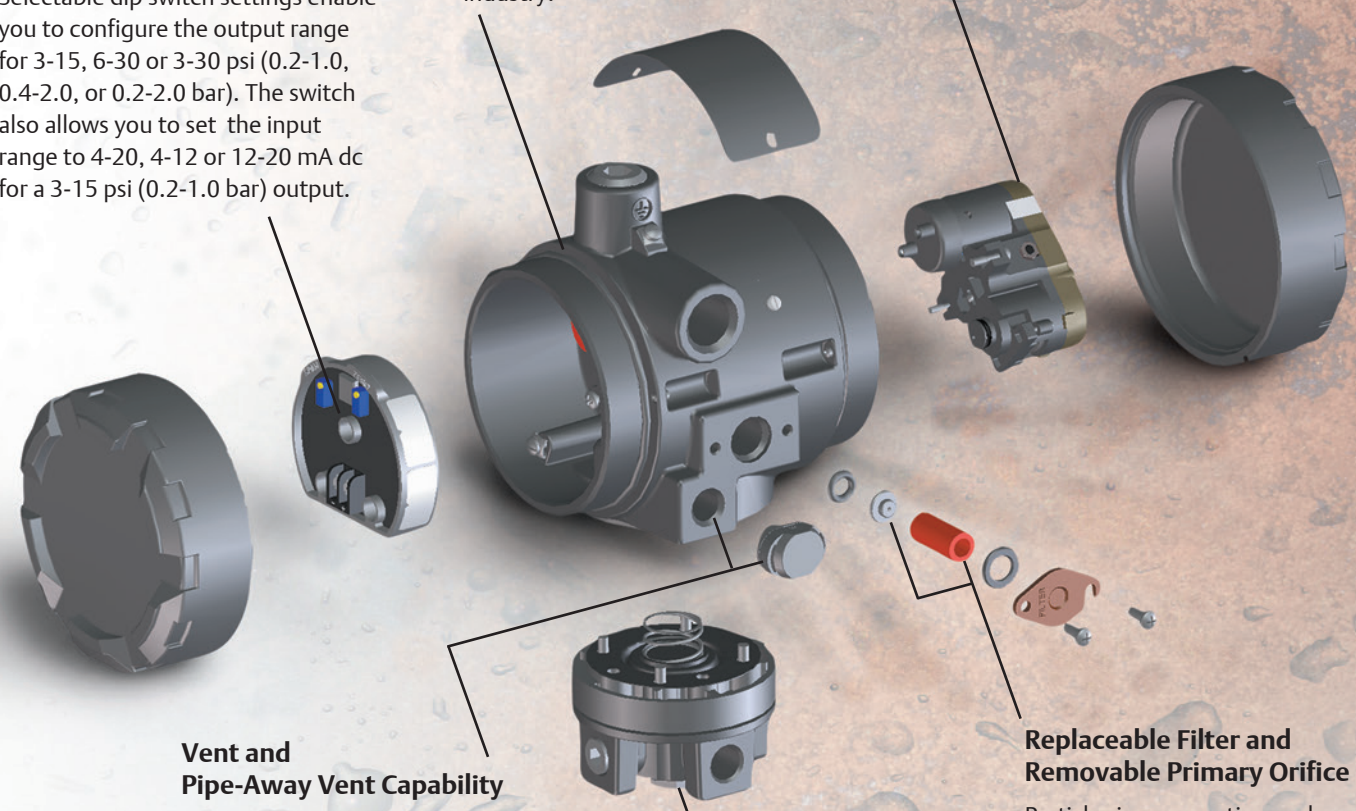
To keep water and harsh atmosphere out of the i2P-100's electronic components, we've encased them in a rugged shell. Selectable dip switch settings enable you to configure the output range for 3-15, 6-30 or 3-30 psi (0.2-1.0, 0.4-2.0, or 0.2-2.0 bar). The switch also allows you to set the input range to 4-20, 4-12 or 12-20 mA dc for a 3-15 psi (0.2-1.0 bar) output.

Housing Assembly

The i2P-100 features an "explosive-fluid seal" to meet Canadian Standards Association, U.S. Factory Mutual, ATEX and IEC approvals for use with natural gas. And its NEMA 4X/IP66 housing is built to meet explosion proof and intrinsically safe requirements in the process industry.

Plug-In Converter

The corrosion resistant, rugged i2P-100 uses a modular design that allows for fast replacement of the converter module.



Vent and Pipe-Away Vent Capability

When the i2P-100 transducer exhausts, air is released through the vent to the atmosphere. When not exhausting, the vent closes to prevent water from entering the instrument. If you need to pipe away natural gas, simply remove the vent and screw a 0.25 inch NPT pipe into the housing.

Relay Assembly

The i2P-100 transducer can produce output volume up to 8.0 normal m^3/hr (5.0 scfm). Pneumatic tubing connects to a 0.25 inch NPT female connection for output pressure.

Replaceable Filter and Removable Primary Orifice

Particles in pneumatic supply usually clog nozzles in low-bleed transducers. This is not so with the i2P-100. Its 5-micron filter helps prevent clogging of the orifice, thereby minimizing the need for maintenance. The primary orifice is easy to remove for service to promote a longer operating life. The filter and orifice can be accessed from outside the device, without the need for a complete strip down and without removing the cover on the electronics compartment.

Contact your local Emerson Process Management sales office for more information or to make a purchase. They are ready to help you take advantage of the many benefits of the Fisher i2P-100 transducer.

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http://www.YouTube.com/user/FisherControlValve

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To find the Fisher sales contact in your area, scan or click the QR code.

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