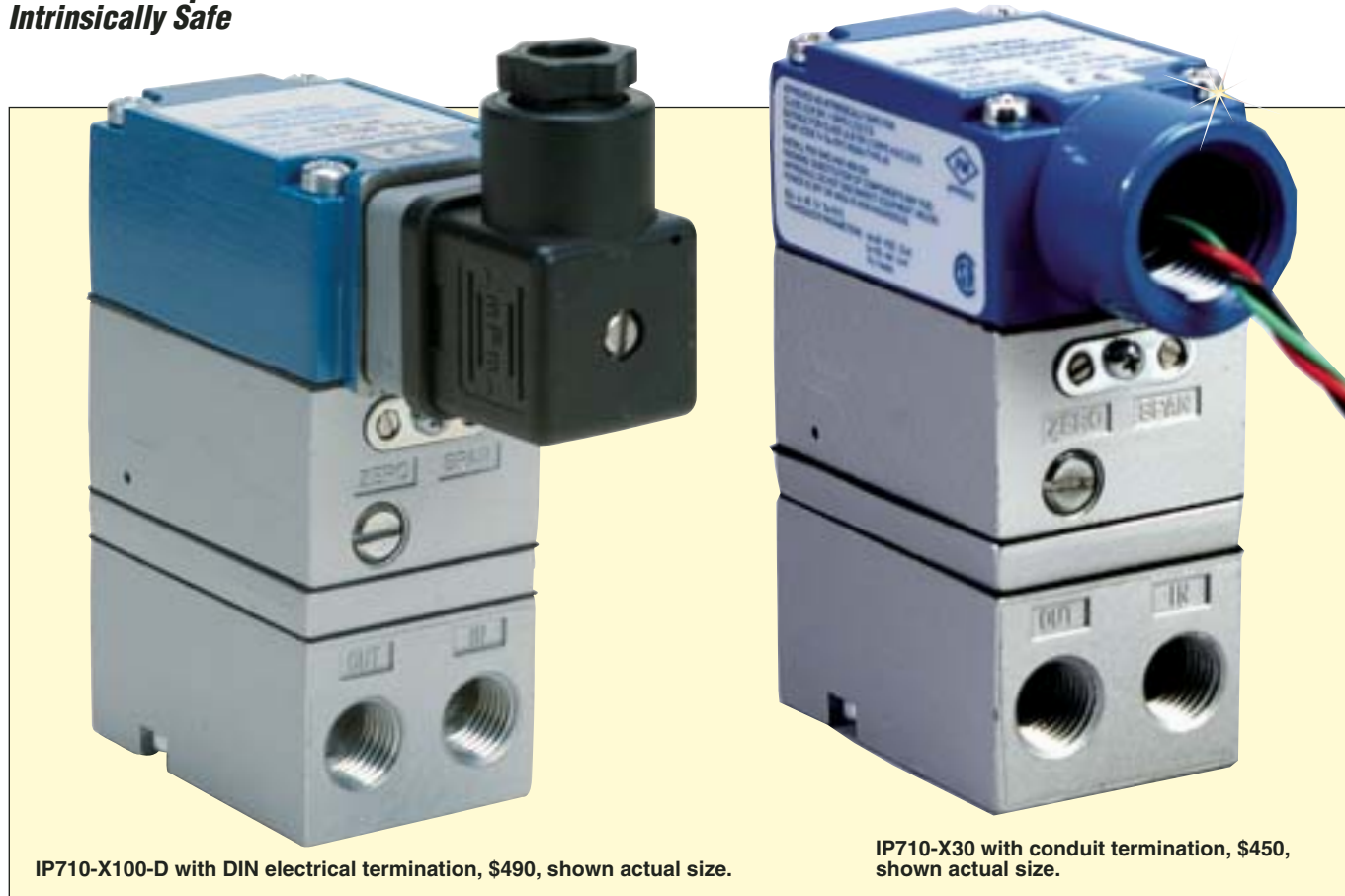




MINIATURE HIGH-ACCURACY I/P TRANSDUCER ELECTRONIC AIR PRESSURE CONTROL

IP710 Series

3-15 to 0-100 psi
Intrinsically Safe



IP710-X100-D with DIN electrical termination, \$490, shown actual size.

IP710-X30 with conduit termination, \$450, shown actual size.

Starts at
\$450



- ✓ High Accuracy: 0.1% of Span
- ✓ NEMA 4X (IP66) Enclosure
- ✓ 4 to 20 mA Loop Powered
- ✓ Conduit or DIN Connector Wiring
- ✓ Wall, Panel, or Pipe Mounting Standard
- ✓ Optional DIN Rail Mounting Kit
- ✓ Input/Output Ports on Front and Back
- ✓ External Zero and Span Adjustments

The IP710 Series I/P transducers are compact, high-accuracy electronic pressure regulators that convert a 4 to 20 mA signal to a proportional pneumatic output. Employing internal solid state feedback circuitry, the IP710 provides precise, stable pressure outputs to final control elements. Immunity to the effects of vibration or mounting position, high tolerance to impure air, and low air consumption make this unit ideal for demanding applications.

Typically these units are used for applications that require electronic pressure control of valve actuators, pneumatic valve positioners, air cylinders, clutches, brakes, dampers, louvers, and pumps. Original equipment applications include manufacturing of machinery for grinding or polishing, welding, dispensing, web tensioning, semiconductor production, automated assembly, conveying, leak testing, food processing, and painting.

Multiple choices for wiring and porting simplify installation and save time. In addition to standard wall, panel, or pipe mounting, an optional DIN rail mounting kit is available.

HIGH-ACCURACY I/P TRANSDUCER



IP710-X60-D with
DIN 43650 connector,
\$490, shown actual size.

SPECIFICATIONS

Agency Approvals:

FM and CSA Intrinsically Safe

IP710-*: Class I,II,III, Div. 1,
Groups C, D, E, F and G

IP710-*D: Class I, Div. 1,
Groups C and D

* = output pressure, does not affect
rating

Input Signal: 4 to 20 mA loop powered

Accuracy: $\pm 0.1\%$ of span

Deadband: 0.02% of span

Min Supply Pressure:

5 psi above max output

Max Supply Pressure:

Range Code	Max Pressure
X17	60 psig
X15, X27, X30	100 psig
X60, X100	130 psig

Supply Pressure Sensitivity:

No measurable effect

Air Consumption: 1.5 SCFH typical
(4.5 SCFH for X60 and X100)

Temperature Limits: -40 to 71°C
(-40 to 160 °F)

Temperature Effect: $\pm 0.07\%$ FS/°C
($\pm 0.045\%$ FS/°F)

Flow Capacity @ Midrange:

4.5 SCFM @ 25 psig (X60 and X100:

20 SCFM @ 150 psig)

Voltage Drop: 9.5 Vdc @ 20 mA

Media: Clean, dry, oil-free, instrument
air, filtered to 40 microns

Pressure Ports: ¼ FNPT

Electrical Connections: ½ NPT
conduit or DIN 43650 connector

Mounting: Direct wall, panel, 1½" pipe
or optional DIN rail

Housing: Chromate-treated aluminum
with epoxy paint, NEMA 4X (IP66) rated

Elastomers: Buna-N

Trim: Stainless steel and zinc-
plated brass

Weight: 400 g (13 oz)

CONDUIT TERMINATION MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	RANGE (psi)	PRICE
IP710-X15	3 to 15	\$450
IP710-X27	3 to 27	450
IP710-X30	6 to 30	450
IP710-X17	1 to 17	450
IP710-X60	2 to 60	475
IP710-X100	2 to 100	475

DIN 43650 CONNECTOR

To Order (Specify Model Number)

MODEL NO.	RANGE (psi)	PRICE
IP710-X15-D	3 to 15	\$465
IP710-X27-D	3 to 27	465
IP710-X30-D	6 to 30	465
IP710-X17-D	1 to 17	465
IP710-X60-D	2 to 60	490
IP710-X100-D	2 to 100	490

ACCESSORIES

To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
IP610-DM	\$9	DIN rail mounting kit
CM-4333	135	Reference Book: Plantwide Process Control

Comes with mounting bracket and complete operator's manual.

Ordering Example: IP710-X15-D, loop-powered I/P converter with 3 to 15 psi range
and DIN 43650 electrical connection, \$465.

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• Flow and Level

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• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters