

IP26 Series Current to Pneumatic Converter



The IP26 (current to pressure) transducer converts a 4–20mA electrical current signal to a proportional linear pneumatic output. The unique conversion technology provides a high level of accuracy and repeatability for the operation of actuated valves. A low mass control circuit provides consistent output in high vibration applications. This compact unit is housed in an explosion proof enclosure that is designed for pipe, bracket or direct manifold mounting. This explosion-proof and intrinsically safe field device is available with a built-in volume booster.

FEATURES

- 4 to 20 mA, 2-wire Loop powered
- Compact design, small size and low weight
- Approvals Intrinsically Safe and Explosion Proof ATEX, FM and CSA certification
- Gas and Dust certification
- Position insensitive – Unit can be mounted in any plane and is stable in high vibration environments
- Low power consumption minimize loop load



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Foxboro
by **Schneider Electric**

SPECIFICATIONS

Functional Specifications

Input	4-20 mA
Outputs (to be selected in Model Code)	0.2 - 1 bar (3 - 15 psig) 0.1 - 1.7 bar (1.5 - 25 psig) 0.4 - 2 bar (6 - 30 psig) Outputs with pressure up to 6 bar (90 psi) can be obtained by adding a volume booster with amplifying ratio – Please consult us !
Air Consumption	2.83 l/min (0.1 scfm)
Supply Pressure Note: Supply pressure must be a minimum of 0.3 bar (5 psig) above maximum output	0.2 - 1 bar: 1.5 bar (22 psig) max 0.1 - 1.7 bar: 2.8 bar (42 psig) max 0.4 - 2 bar: 2.8 bar (42 psig) max
Flow Capacity	4.1 m ³ /h (2.4 scfm) max.
Temperature Limits	-40 °C to 85 °C (-40 °F to 185 °F) / down to -55 °C (-67 °F) with option -T
Relative Humidity	75% average - 95% short time non-condensing
Impedance	260 Ohms @ 21 °C (70 °F)
Loop Load	5.2 Volts @ 21 °C (70 °F)

Performance Specifications

Linearity (Independent)	< ±0.5% of span
Hysteresis	< ±0.3% of span
Deadband	< ±0.1% of span
Repeatability	< ±0.3% of span; < ±0.15% of span typical
Mounting Orientation	< ±0.5% / 90 degree change
Air Supply Sensitivity	< 0.3% / 1.5 psig (0.10 bar) change
Vibration Effect	< ±1% up to 10 g and 20-80 Hz
Temperature Effect	< ±0.75% / 12 °C (/ 10 °F) change

Physical Specifications

Housing	IP 65 (NEMA 4X)
Port Sizes	In/Out Pneumatic: 1/4" NPT; gauge part: 1/8" NPT Electric: M20x1.5 (ATEX) / 1/2 NPT (FM / CSA)
Media	Clean, dry, oil-free, instrument air, filtered to 40 micron
Electrical Connections	Terminal block
Mounting	2" pipe (optional)
Materials	Housing: Chromate-treated Aluminum with epoxy paint. IP65 (NEMA 4X) Elastomers: Buna-N Trim: Stainless steel; brass; zinc-plated steel Label: Stainless steel
Weight	0.64 kg (1.4 lb)