

7000 Series I/P Transducer

The Masoneilan-Dresser Model 7000 electronic Current-to-Pressure (I/P) Transducer is designed for servicing the most demanding industrial and process applications where 4-20 mA current signals are converted to precise pneumatic signals for control valve operation. The digital pressure control principle uses the proven Reedex™ micro-miniature valve technology avoiding the traditional, and sensitive, nozzle-flapper element. The advantages of this fully electronic transducer include:

freedom from effects of vibration, no position effect, low air consumption, excellent long term stability, and accurate (0.15% typ.) operation over a wide temperature range. The Model 7000 combines sophisticated control techniques, environmentally hardened housing and advanced electronics to produce a field mountable I/P transducer with superior performance with the lowest cost of ownership.



APPROVALS for HAZARDOUS Areas and Environmental

FM & CSA

Intrinsic Safety: Class I, Div I, Groups A, B, C, D, T4

Explosion proof: Class I, Div I, Groups B, C, D, T6

CENELEC

Intrinsic Safety: EEx ia IIC, T4

Flame proof: EEx d IIB + H2, T6

Electro-Magnetic Compatibility

RFI protection giving full protection up to Radio Frequency Fields of 10 V/m over the band of 30-1000 MHz.

7000 Series I/P Transducer

Specifications:

Input:	4-20 mA (100 mA max.)
Output:	3-15 psi; 0.2-1 bar (adjustable to 1-17 psi) 6-30 psi; 0.4-2 bar (adjustable to: 0-20 psi, 3-27 psi & 0-35 psi) Minimum output is less than 0.2 psi (15 mbar)
Supply Pressure Range:	18 - 60 psi (1.3 - 4 bar)
Preferred Supply Pressure:	25 - 35 psi (1.7 -2.5 bar)
Output Capacity:	10 scfm (300 NI/min)
Air Consumption:	.01 scfm (350 cc/min)
Accuracy:	0.2% of span
Conformity:	0.16% of span
Hysteresis plus Deadband:	0.04% of span
Vibration:	Less than 1% of output pressure change for 5 mm displacements, 10-30 Hz, 10g acceleration, 30-500 Hz
Operating Temperature:	-40 to +85°C (-40 to + 185°F)
Terminal Voltage:	5.5 - 6.5 Volts (equivalent resistive load of 325 ohms)
Air Connections:	1/4" NPT female (plus two 1/4" NPT gauge ports)
Electrical Connections:	1/2" NPT or M20 female (alternate Plug/Socket: DIN 43650, 30 mm, rating IP65)
Temperature Effect:	0.035% of span/Degree F
Mounting Effect:	Negligible
Supply Pressure Effect:	Less than 1% of span for 10% supply pressure change
Split Range Operation:	4-12 mA, 12-20 mA
Mounting:	Integral bracket for direct mount to valves or pipe mount option.
Weight:	0.93 kg. (2 lb).
Fail-safe output:	Loss of electrical signal causes output to quickly drop to 0.2 psig (15 mbar).
Enclosure:	IP66, NEMA 4X

For more information call your local Masoneilan Representative or:

Masoneilan US
85 Bodwell
Avon, MA 02322
508-586-4600

Masoneilan Europe
4, place de Saverne
92971 PARIS LA DEFENSE CEDEX
011-33-1-49-04-90-00