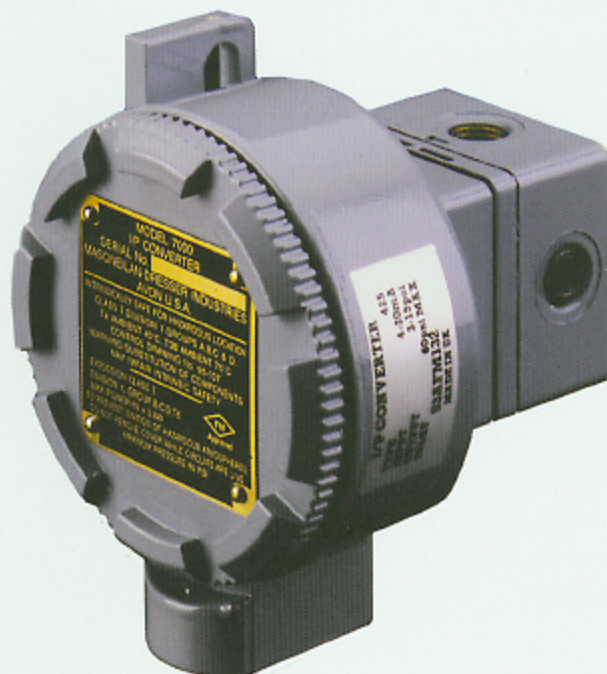


## 7000 Series I/P Transducer

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:

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