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TECHNOLOGY GROUP

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Expert team | Trust guarantee | 100% satisfaction

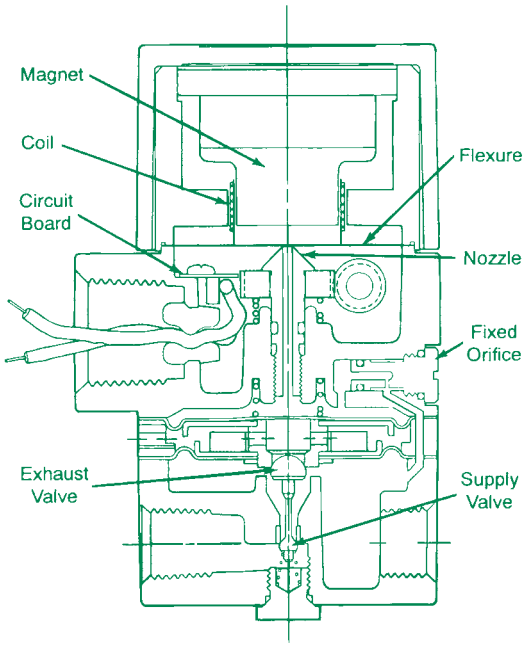
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Find the *Emerson / Numatics R831-02FGR* at our website: *Click HERE*

I/P, E/P R83 Series

Application

The Electropneumatic Transducer (I/P, E/P) converts a current or voltage input signal to a linearly proportional pneumatic output pressure. This versatile instrument is designed for control applications that require a high degree of reliability and repeatability at an economical cost. These units are used for applications that require the operation of valve actuators, pneumatic valve positioners, damper and louver actuators, final control elements, relays, air cylinders, web tensioners, clutches, and brakes.



Features

- Integral volume booster
- Compact size
- Low air consumption
- Field reversible
- Flexible zero and span adjustments
- Standard process inputs
- Split ranging
- FM - NEMA 4x
- CE Approved

Specifications

	Low Output Range (Up to 30 PSIG)	**High Output Range (Up to 120 PSIG)**
Min./Max. Supply Pressure:	minimum 3 PSIG (21 kPa) above maximum output maximum 100 PSIG (700 kPa)	minimum 5 PSIG (35 kPa) above maximum output maximum 150 PSIG (1050 kPa)
Supply Pressure Sensitivity	< +/- .1% of span per PSIG (< +/- .15% of span per 10 kPa)	< +/- .004% of span per 1.0 PSIG (7 kPa)
Terminal Based Linearity	< +/- .75% of span	< +/- 1.5% of span typ., +/- 2.0% max
Repeatability:	< .5% of span	< .5% of span
Hysteresis	< 1.0% of span	< .5% of span
Response Time	dependent on pressure range, typically less than .25 sec. for 3 - 15 PSIG units	dependent on pressure range, typically less than .25 sec. for 3 - 15 PSIG units
Flow Rate	4.5 SCFM (7.6 m3/hr ANR) at 25 PSIG (175 kPa) supply 12 SCFM (20 m3/hr ANR) at 100 PSIG (700 kPa) supply	20 SCFM (34 m3/hr ANR) at 150 PSIG (1050 kPa) supply
Relief Capacity	2.0 SCFM (3.4 m3/hr) at 5 PSIG (35 kPa) above set point	2.0 SCFM (3.4 m3/hr) at 5 PSIG (35 kPa)
Maximum Air Consumption	.03 SCFM (.07 m3/hr) typical	.05 SCFM (.14 m3/hr) typical
Media	oil free, clean dry air filtered to 0.3 micron	oil free, clean dry air filtered to 0.3 micron
Temp. Range (operating)	-20° F to 140° F (-30° C to 60° C)	-20° F to 140° F (-30° C to 60° C)

NOTE: This unit, as is, is a Class 1, Division 2 hazardous location item (non-incendive). With the proper barrier it is a Class 1,2,3; Division 1; Groups C,D,E,F,G item (applies only to 4-20 Ma I/P).

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.

How To Order

R 83 1 – 02 F G

Model
R = Regulator

Series
83 = I/P, E/P Transducer

Style
1 = 4-20 Ma
2 = 0-5 VDC
3 = 0-10 VDC

Threads
– = NPTF
G = G tap (BSPP)

Port Size
02 = 1/4

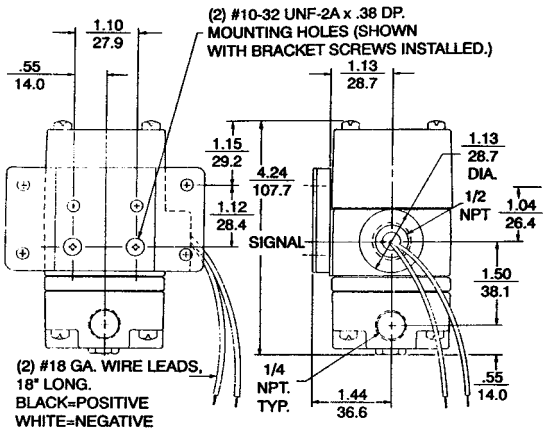
Output Range
B = 3-15 PSIG (4-20 Ma Input Signal Available)
C = 3-27 PSIG (4-20 Ma Input Signal Available
E = 2-60 PSIG (4-20 & 0-5 VDC Ma Input)
F = 3-120 PSIG (4-20 & 0-10 VDC Ma Input Signal Available

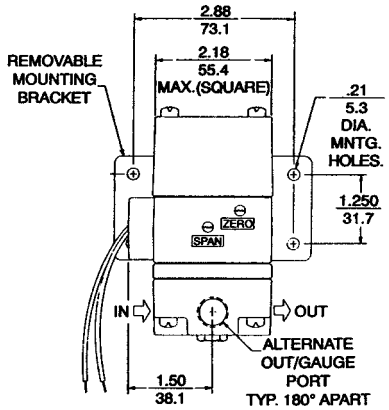
Options
G = Gauge

Dimensions: Inches (mm)



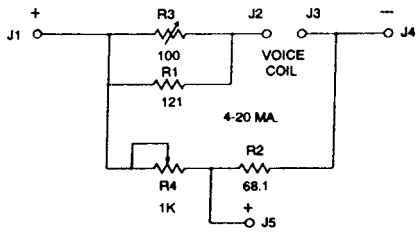
R831-02B pictured





NOTE: Bracket included with each unit.

Electrical Schematic



NOTE: FOR 4-20MA AND 10-MA USE J1 AS POSITIVE INPUT.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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