Model TXI7850 Moisture Resistant Electro-Pneumatic Transducer

Unit shown: *Natural Gas Approved*
TXI7850-401-EN

Fairchild's new TXI7850 Transducer features internally protected critical performance components, specifically designed to make these units ***moisture and vibration resistant*** *for high performance in rough service.*

- Explosion-proof NEMA 4X, IP65, Type 4 enclosure for outdoor and indoor installations.
- Optional tapped exhaust port vents exhaust gas.
- Compact size for use in restricted areas.
- Internal electronic feedback maintains precise output pressure control.
- Piezoelectric actuator disk provides stability regardless of vibration or position.
- RFI/EMI protection eliminates susceptibility to electromagnetic interference.
- Optional version approved for use with Natural Gas or Industrial Methane as a supply media.

FM APPROVED

FAIRCHILD
precision pneumatic & motion control

Designed for

PULP & PAPER

Model TXI7850

Moisture Resistant Explosion-proof Transducers

Specifications

		3 psig	9 psig	15 psig	30 psig *
Max. Air Consumption	SCFH	3.5	7.0	9.5	13.5
All Ranges		(.10 m³/HR)	(.20 m³/HR)	(.27 m³/HR)	(.38 m³/HR)
Flow Rate (SCFM)		2.5 (4.25 m³/HR) @ 25 psig, [1.7 BAR], (170 kPa) supply & 9 psig, [0.6 BAR], (60 kPa) Output	**OR**	9.0 (15.3 m³/HR) @ 120 psig, [8.0 BAR], (800 kPa) supply & 9 psig, [0.6 BAR], (60 kPa) Output	
Temperature Range (ISA S51.1)	Operating	-40°F to + 160°F	(-40°C to + 71.2°C)		
	Storage	-40°F to + 180°F	(-40°C to + 82.2°C)		
Span/Zero Adjustments		Screwdriver adjustments located under cover			

* Extended Range to 100 psig also available

Features

- Explosion-proof NEMA 4X, IP65, Type 4 enclosure for indoor/outdoor installations.
- Piezoelectric actuator provides stability regardless of vibration or position.
- Optional tapped exhaust port vents exhaust gas.
- Epoxy paint for corrosive protection.

Model 63

Pneumatic Filter Regulator

Specifications

Flow Capacity	25 (42.5 m³/HR) @ 100 psig, [7.0 BAR], (700 kPa) supply & 20 psig, [1.5 BAR], (150 kPa) setpoint
Exhaust Capacity	0.4 SCFM (0.68 m³/HR) (downstream pressure 5 psig, [.35 BAR] (35 kPa) above 20 psig, [1.5 BAR], (150 kPa) setpoint
Supply Pressure Effect	less than 1.25 psig, [.09 BAR], (9.0 kPa) per 100 psig, [7.0 BAR], (700kPa) change in supply pressure
Supply Pressure	250 psig, [17.0 BAR], (1700 kPa)
Ambient Temperature Limits	-40°F to +160°F (-40°C to +71°C)

Features

- Standard 5-micron filter minimizes internal contamination.
- Stainless trim and epoxy paint available for corrosive protection.
- Standard tapped exhaust.
- Soft Relief Seat minimizes air loss.

Model 100

High Flow Regulator

Specifications

Flow Capacity	Forward flow in excess of 2300 SCFM (3900 m³/HR) (250 psig), [17.0 BAR], (1700 kPa) supply, 1 1/2" NPT Conn.
Exhaust Capacity	44 SCFM (75 m³/HR) (downstream pressure 5 psig, [.35 BAR], (35 kPa) above set pressure)
Sensitivity	0.5" (1.27 cm) Water Column
Supply Pressure Effect	less than 0.1 psig, [.007 BAR], (.7 kPa) per 100 psig, [7.0 BAR], (700 kPa) change
Maximum Supply Pressure	500 psig, [35.0 BAR], (3500 kPa)
Ambient Temperature Limits	-40°F to +200°F (-40°C to +93.3°C)

Features

- Venturi-type aspirator tube to aid stability to minimize downstream pressure droop under flowing conditions.
- Balanced supply valve to minimize effect of supply pressure variation.
- Epoxy Coat and Viton Elastomers available for harsh environments.

Model 2400 Series

Precision M/P Converter

Specifications (varies with options)

Flow Capacity (Model 81)	50 (85 m³/HR) @ 100 psig, [7.0 BAR], (700 kPa) supply & 20 psig, [1.5 BAR], (150 kPa) setpoint
Exhaust Capacity (Model 81)	5.5 SCFM (9.4 m³/HR) (downstream pressure 5 psig, [.35 BAR] (35 kPa) above setpoint
Max. Supply Pressure (Model 81)	150 psig, [10.0 BAR], (1000 kPa)
Ambient Temperature Limits (Extended Operation Option)	-40°F to +200°F (-40°C to +93.3°C)

Features

- Locks in last position in event of power failure maintaining setpoint until power is restored.
- Available in three precision regulator models with various AC and DC voltage inputs to allow precise selection of pressure ranges and flow capacities.
- Explosion-proof NEMA 4 Enclosure.

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Fairchild Industrial Products Company
3920 West Point Boulevard • Winston-Salem, NC 27103
phone: 336-659-3400 • fax: 336-659-9323
sales@fairchildproducts.com • www.fairchildproducts.com

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