



EPiC

Miniature Digital Pressure Controller



ENGINEERING YOUR SUCCESS.

EPiC Miniature Digital Pressure Controller

“Precision in the palm of your hand - experience the difference with our EPiC Digital Pressure Controller.”

Highlights



Smallest Size/Lightest Weight

Volume: 2.87 in³ (4710 cm³)
Weight: 1.96 oz (55.6g)
Width: <0.7" (18mm)

Flexibility in Integration

Analog or Digital Control
Ported or Manifold Mount
10 to 30 VDC Supply

Advanced Process Control

Analog Feedback on Pressure
Visual Indicators on Performance (LED)
Information Packets on Performance (Digital Mode)

High Performance

Accuracy: $\pm 0.25\%$ FS
Repeatability: $\pm 0.2\%$ FS
Stability: $\pm 0.2\%$ FS
(Optimization Available)

Application Versatility

Backed by Precision Fluidics Technical Expertise
PPF Patented Low Pro Proportional Technology
Two Pressure Ranges: 30 and 150 psig (2 and 10 bar)
Two Orifice Sizes: 0.030" and 0.011" (0.75mm and 0.25mm)



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Product Specifications

Physical Properties

Valve Technology:
VSO Low Pro proportional valve, available in sizes: 0.011" (0.28mm) and 0.030" (0.76mm)
Media:
Non-corrosive gases
Operating Environment:
-32 to 131°F (0 to 60°C) Up to 95% RH, non-condensing
Storage Temperature:
-40 to 158°F (-40 to 70°C)
Dimensions:
Ported: 2.22" x .70" x 1.85" (56.3mm x 17.8mm x 47.0mm)
Manifold: 2.22" x .70" x 2.25" (56.3mm x 17.8mm x 57.15 mm)
Porting:
M5 Threaded Port or Face Seal Manifold Mount

Electrical

Power:
10.8 to 26.4 VDC 2W Max, 1W Nominal
Input Control Signal:
0-5 VDC, 0-10 VDC & RS485
Fault Detection:
Multiple Status Indicators in Digital Analog Monitor Voltage Out

Wetted Materials

Valve:
Aluminum, Brass, Nickel, Stainless Steel, Urethane Polyvinyl Butyral, FKM, Epoxy
Manifold:
Aluminum
Sensor:
Gold, Silicon, PPS polymer, Silicone Adhesive

Performance Characteristics

Pressure Ranges:
30 psig (2.06 bar) 150 psig (10.3 bar)
Pressure Accuracy:
± 0.25 % FS Maximum
Repeatability:
± 0.2 % FS Maximum
Linearity:
± 0.2 % FS Maximum
Stability:
± 0.2 % FS Maximum
Resolution:
Digital Control: 0.02% Step Analog Control: 0.1% Step
Temperature Error:
± 0.05% of FS / °C
Pressure Drop:
15 psid (1.03 bar) Minimum

Ordering Information

Sample Part ID	942-	030	10	0	-001
Description	Series	Pressure Range	Valve Orifice	Configuration	Pneumatic Porting
Options		030: 0 - 30 psig (0 - 2.06 bar) 150: 0 - 150 psig (0 - 10 bar)	10: 0.011" (0.25 mm) 30: 0.030" (0.76 mm)	0: Non Vented 1: Vented	-000: M5 Threaded Ports -001: Manifold Ports

Accessories (not included)	
290-006062-001:	350MHz CAT5E Patch CABLE, 1 ft Length (0.304 m)
290-006062-003:	350MHz CAT5E Patch CABLE, 3 ft Length (0.914 m)

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Scan for more detailed information:



Parker Hannifin Precision Fluidics Division

The Precision Fluidics Division of Parker Hannifin is a leading supplier of miniature fluidic components and system solutions integral to the world's life sciences, life safety and high technology markets. Our innovations allow people to get more out of life. Our product portfolio includes miniature pneumatic, proportional and liquid control valves, diaphragm pumps, thermal mass flow and electronic pressure controllers, high-precision regulators and rotameters.

Miniature Solenoid Valves



For more information about our miniature solenoid valve offerings, [visit our website](#).

Miniature Liquid Valves



For more information about our miniature liquid valve offerings, [visit our website](#).

Miniature Proportional Valves



For more information about our miniature proportional valve offerings, [visit our website](#).

Miniature Pumps



For more information about our miniature liquid valve offerings, [visit our website](#).

Pressure and Flow Control



For more information about our miniature liquid valve offerings, [visit our website](#).

Customized Systems and Solutions

Our team of experienced engineers and technical support staff is dedicated to helping our customers find the right solutions for their specific needs. We work closely with our customers to understand their unique requirements and provide tailored solutions that meet their exact specifications.

