Electronic Pressure Instruments

MODERN PRESSURE INSTRUMENTS FOR OEM APPLICATIONS

100 ms control response

Accurate to 0.125% of full scale

Wide range of pressures

Adjustable valve tuning

Optional IP66/67 rating

Compact. Precise. Fast.

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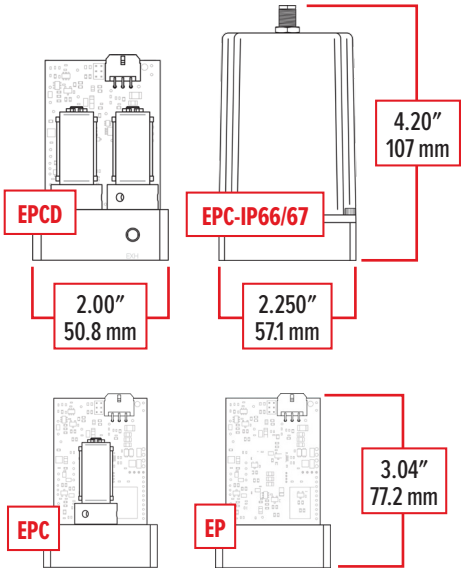
EPC & EPCD Electronic Pressure Instruments

MODERN PRESSURE INSTRUMENTS FOR OEM APPLICATIONS



Quick Specifications:

Gauge Ranges:
PSI: 1, 5, 15, 30, 100, 300, 500, 1000, 1500, 3000
inH_2O: 10, 20
Custom ranges also available

Absolute Ranges:
PSIA: 15, 30, 100, 300, 500, 1000, 1500, 3000
Custom ranges also available

Control Ranges:
Up to 500 PSIA or PSIG

Operating Range:
0.01–100% full-scale
10,000:1 Turndown

Accuracy:
±0.125% full-scale (NIST-traceable)

Repeatability:
0.05% of full scale

Signals:
RS-232/485, Modbus RTU digital and 0–5 Vdc analog (0–10 Vdc customizable), 4–20 mA

Communications:
Modbus RTU, ASCII Serial

Process Connections:
Available in NPT

Fast in Every Way

- **100 ms control response**
  Stabilizes upstream fluctuations
- **Adjustable valve control tuning**
  for best speed and stability
- **Instant warm-up**
  Measures at full accuracy in 70 ms
- **Ready to ship**
  Versatile stock reduces lead time
- **Optional IP66/67 rating**

Selected Applications

Fluidic Dispensing for Flow Cytometry

EPCDs have inlet and exhaust valves for efficient control of head space pressures to propel the sheath fluid and the cellular sample through the flow cytometer's laser. High accuracy and wide usable ranges make possible the dispensing of precise amounts of fluid.

Electronic Pressure Control for Split Flow Gas Chromatographs

Alicat's single proportional valve EPC maintains stable carrier gas flow rates at the sample injector within a gas chromatograph. A second backpressure EPC on the split flow vent ensures sufficient column head pressure. Small size, fast response and dual analog/digital communications make the EPC easy to build into OEM products.