



Excellent Design & Manufacture

Pressure and Vacuum Detectors for Process Applications

EDM pressure detectors

are rugged, field-mounted instruments. The pressure sensing element of the EDM pressure detector is a force-balance, piston-actuated assembly. The sensing element is sealed by a flexible diaphragm and a static o-ring. A wide selection of wetted parts materials for media compatibility and containment are available. A metal diaphragm may be welded to the pressure port for certain applications, thereby eliminating the o-ring.

Application Information

The EDM pressure detectors in this catalog are suitable for a variety of process applications. Basic models with standard wetted parts are normally suitable for air, oil, water and non-corrosive processes. Certain applications may require customized specials. Consult the EDM representative in your area or the factory.



Features and Benefits

Complete Product Line

- Standard models and customized specials cover pressure ranges from 30 inches Hg VAC to 4000 psi.

Robust Construction

- Rugged, high-cycle rate tolerance, long life, not critical to vibration, high overrange and proof pressures, excellent corrosion resistance to hostile environments.
- Enclosure ratings: NEMA 1, 4, 4X, 7, or 9 available.
- Ingress protection rating up to IP66.

Instrument Quality

- High resolution of set points, high repeatability, narrow dead band, negligible temperature effect.

Wetted Parts

- Wide selection materials, process connection configurations and sizes. Optional "fire-safe" pressure sensor.

Snap-Action Electrical Detecting

- Wide selection UL Listed and CSA Certified detecting elements for AC and DC service. Optional "hermetically sealed" capsule for hazardous and hostile environments.

Field Adjustable

- Self-locking adjustment, no special tools required. No-charge factory calibration.

Cost Effective

- Simple and fast installation without special tools, long service life, no required periodic service or spare parts.

Agency Listings/Certification

- Select models with ATEX, IECEx, CSA, FM, GOST R, INMETRO, Rostekhnadzor (RTN), TIIS, UL
- Meets most code and customer requirements.

Safety Certified to IEC 61508 (SIL)

- EDM products are certified to IEC 61508 for non-redundant use in SIL1 and SIL2 Safety Instrumented Systems for most models. For more details or values applicable to a specific product, see the Safety Integrity Level Quick Guide.

Shock/Vibration

- Select models tested to MIL-S-901D (Navy) shock test.
- Select models tested to MIL-S-167 vibration test.

Built-In Quality

- Rigid quality standards maintained from raw material to finished product.

Delivery

- Routine shipments 7 to 10 working days. Emergency shipments via same day air.

Service

- Factory sales engineers and area EDM representatives provide effective and prompt worldwide service.

EEA601-410034-410

Adjustable Range		Typical Dead Band		Overrange		Proof	
psi	bar	psi	bar	psi	bar	psi	bar
200 to 1000	1.4 to 70	9.2	0.6	2500	170	6000	410

Housing		Wetted Materials	
Weatherproof NEMA 4, 4X, IP66		Diaphragm	Teflon-Coated Polyimide
Electrical	3/4" NPT(F) - Right	O-Ring	Buna-N
Material	Copper-free aluminum	Pressure Port	
Detecting Element		Process Connection Size	1/4" NPT(F)
		Pressure Port Material	Carbon Steel
	Designator	SPDT	
	Rating	5 Amps @ 30 VDC	
Dead Band Multiplier	1.0		

Technical drawing of the 300 Series Process Connection Mounting Bracket, showing front and side views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Width: 108.1 (2.75)
- Distance from Left Edge to Center of Mounting Slot: 52.4 (2.06)
- Distance from Left Edge to Center of Electrical Connection: 69.9 (2.75)
- Distance from Center of Mounting Slot to Center of Electrical Connection: 33.3 (1.31)
- Overall Height: 146.8 (5.78)
- Distance from Bottom Edge to Center of Mounting Slot: 54.7 (2.15)
- Distance from Bottom Edge to Center of Electrical Connection: 146.8 (5.78)

Side View Dimensions:

- Overall Depth: 56.5 (2.22)
- Distance from Front Face to Center of Mounting Slot: 28.6 (1.13)
- Distance from Front Face to Center of Electrical Connection: 26.1 (1.03)
- Distance from Bottom Edge to Center of Mounting Slot: 40.5 (1.59)
- Distance from Bottom Edge to Center of Electrical Connection: 7.1 (0.28)

Electrical Connection:

- 3/4 NPTF STD
- 1/2 NPTF OPT
- M20 X 1.5 F OPT (BOTH SIDES ON N3 & P3 HSGS)

Mounting Slots:

- 2X 13.5 x 7.1 (0.53 x 0.28)

Process Connection:

- 1/4 OR 1/2 NPTM PROCESS CONNECTION OPTIONAL