



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.

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Product Specifications

Housing		Wetted Materials	
Weatherproof NEMA 4, 4X, IP66		Diaphragm	316L SS
Electrical	3/4" NPT(F) - Right	O-Ring	Viton
Material	Copper-free aluminum	Pressure Port	
Detecting Element		Process Connection Size	1/4" NPT(F)
Designator	SPDT	Pressure Port Material	Carbon Steel
Rating	5 Amps @ 30 VDC		
Dead Band Multiplier	1.0		

Technical drawing of the 3000 Series Process Connection, showing front and side views with dimensions in inches.

Front View Dimensions:

- Overall width: 108.1
- Overall height: 146.8
- Top flange width: 52.4
- Top flange height: 4.25
- Mounting slot width: 69.0
- Mounting slot height: 2.75
- Mounting slot spacing: 33.3
- Mounting slot offset: 1.31
- Process connection width: 13.5
- Process connection height: 7.1
- Process connection offset: 0.53
- Process connection thickness: 0.28
- Process connection label: 2X 13.5 x 7.1 0.53 x 0.28 MOUNTING SLOTS
- Process connection label: 1/4 OR 1/2 NPTM PROCESS CONNECTION OPTIONAL

Side View Dimensions:

- Overall width: 56.5
- Overall height: 146.8
- Top flange width: 28.6
- Top flange height: 1.13
- Mounting slot width: 26.1
- Mounting slot height: 1.03
- Mounting slot spacing: 33.3
- Mounting slot offset: 1.31
- Process connection width: 13.5
- Process connection height: 7.1
- Process connection offset: 0.53
- Process connection thickness: 0.28
- Process connection label: 2X 13.5 x 7.1 0.53 x 0.28 MOUNTING SLOTS
- Process connection label: 1/4 OR 1/2 NPTM PROCESS CONNECTION OPTIONAL

Electrical Connection:

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