



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.

EEG402-900078-900

Product Specifications

Housing		Wetted Materials	
Weatherproof NEMA 4, 4X, IP66		Diaphragm	TCP
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)
Designator	SPDT	Pressure Port Material	aluminum
Rating	5 Amps @ 30 VDC		
Dead Band Multiplier	1.0		

Technical drawing of the NPTM Process Connection showing front, side, and detail views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall width: 108.1 (4.25)
- Distance from center to side mounting holes: 52.4 (2.06)
- Distance from center to bottom mounting holes: 69.9 (2.75)
- Distance between bottom mounting holes: 33.3 (1.31)
- Overall height: 150.9 (5.94)
- Distance from top of mounting flange to bottom of process connection: 58.7 (2.31)
- Distance from bottom of process connection to base: A

Side View Dimensions:

- Overall height: 56.5 (2.22)
- Distance from top of mounting flange to bottom of process connection: 28.6 (1.13)
- Distance from bottom of process connection to base: 26.1 (1.03)
- Distance from top of mounting flange to bottom of process connection (alternative): 40.5 (1.59)
- Distance from bottom of process connection to base: 7.1 (0.28)

DETAIL 1 NPTM PROCESS CONNECTION SCALE 0.3

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

CLEARANCE SLOTS FOR 6.4 (0.25) HARDWARE WITH 63.5 (2.5) MIN TO 76.2 (3.00) MAX MOUNTING HOLES

1/4 OR 1/2 NPTM PROCESS CONNECTION OPTIONAL

PROCESS CONNECTION