



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, Rostechnadzor (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.

Model Number System

EWW402-023084-023

| Adjustable Range | | Typical Dead Band | | Overrange | | Proof | |
|------------------|-----------|-------------------|------|-----------|-----|-------|-----|
| psi | mbar | psi | mbar | psi | bar | psi | bar |
| 0.4 to 2.0 | 30 to 140 | 0.1 | 6.9 | 200 | 14 | 400 | 28 |

Product Specifications

Housing

Hazardous Locations

- Conventional Explosion Proof NEMA 4, 4X, 7, 9, IP66

UL Listed Class I, Groups C & D; Class II,

Groups E, F & G; Divisions 1 & 2 as an outlet box only

Electrical 3/4" NPT(F) - Right

Material Copper-free aluminum

Detecting Element

Designator SPDT

Rating 5 Amps @ 30 VDC

Dead Band Multiplier 1.0

Wetted Materials

Diaphragm TCP Teflon-Coated Polyimide

O-Ring Buna-N

Pressure Port

Process Connection Size 1/4" NPT(F)

Pressure Port Material Aluminum

Conventional Explosion Proof

