

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 noncorrosive processes. Certain applications may require customized specials. Consult the EDM representative in your area or the factory.



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.

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.

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

Service

www.sg-edm.com

Factory sales engineers and area EDM representatives provide effective and prompt worldwide



Model Number System

ENE101-610076-610

Adjustable Range		Typical Dead Band		Overrange		Proof	
psi	bar	psi	mbar	psi	bar	psi	bar
7 to 30	0.5 to 2	0.5	34.5	1500	100	2500	170

Product Specifications								
Housing		Wetted Materials						
Weatherproof NEMA 4, 42	X, IP66	Diaphragm	Teflon-Coated Polymide Buna-N					
Electrical	3/4" NPT(F) - Right	O-Ring						
Material	Copper-free aluminum	Pressure Port						
		Process Connection Size	1/4" NPT(F)					
Detecting Element		Pressure Port Material	Carbon Steel					
Designator	SPDT							
Rating	5 Amps @ 30 VDC							
Dead Band Multiplier	1.0							

Weatherproof - NEMA 4, 4X, IP66

