



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.

## Model Number System

# EEK302-900021-900

Adjustable Range <sup>2</sup> (Vacuum - 0 - Pressure)		Typical Dead Band <sup>1</sup> (Vacuum Mode)		Overrange		Proof	
in. wc	mbar	in. wc	mbar	psi	bar	psi	bar
20 - 0 - 20	50 - 0 - 50	0.8	1.99	200	14	400	28

## Product Specifications

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

## Weatherproof - NEMA 4, 4X, IP66

