



Excellent Design & Manufacture

Differential Pressure Detectors

This differential pressure detectors are rugged, field-mounted instruments that incorporate a flexible modular design providing cost effective sensing solutions. The two-piece piston design allows for complete differential pressure reversal without damage.

Application Information

Basic models with standard wetted parts are normally suitable for air, oil, water and non-corrosive process fluids.

Corrosive service and special requirements may require optional components.

This differential pressure detectors are suited for low-to-high differential pressure, fluid power or process applications where high and varying static pressures, high overrange, proof, shock pressure or cycle rates are expected.



Features and Benefits

Modular Design

- Wide range of electrical enclosures available.

Robust Construction

- Rugged, high cycle rate tolerance, long life, not critical to vibration, high overrange and proof pressures, withstands full Hi and Lo side pressure reversals, excellent corrosion resistance to hostile environments.

Instrument Quality

- High repeatability, narrow dead band, negligible temperature effect and static influence.

Wetted Parts

- Wide selection of materials.

Field Adjustable

- Excellent resolution of Set Points, adjustment, no special tools required.
- No-charge factory calibration.

Agency Listings/Certification

- Select models with ATEX, IECEx, CSA, GOST R, INMETRO, Rostekhnadzor (RTN), 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 (Form 1528).

Delivery

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

Service

- Factory service engineers and area factory representatives provide effective and prompt worldwide service.

Model Number System

EEA105-503002-503

Adjustable Range (increasing pressure)		Typical Mid-Range Dead Band		Maximum System Pressure		Maximum Differential Pressure	
psid	bar	psi	bar	psi	bar	psid	bar
10 to 75	.7 to 5.2	1.5	.10	500	34	500	34

Product Specifications

Housing		Material & Systems	
Weathertight —NEMA 4, 4X, IP65		O-Ring	Buna-N
Material	Aluminum	Diaphragm	TCP Teflon-Coated Polyimide
Electrical	3/4" NPT(F)-Right	Pressure Port	
Detecting Element		Material	316SS
Designator	SPDT	Connection Size	1/4" NPT(F)
Rating	5 Amps @ 30 VDC		
Dead Band Multiplier	1.5		

Weathertight - Nonhazardous Service (NEMA 4,4X IP65)

