



Excellent Design & Manufacture

## Differential Pressure Detectors

**This differential pressure detectors** are robust field-mounted instruments. The pressure sensing assembly is a diaphragm-piston combination. It can be configured for service in non-hazardous and hazardous locations. Detecting elements are DPDT.

### Application Information

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

Corrosive service and particular user requirements may require optional components.

It is suited for low-to-high differential pressure process or fluid power applications where high and varying static pressure, 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, Rostechnadzor (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

# EEC201-418021-418

| Adjustable Range<br>Increasing Differential<br>Pressure |           | Typical Dead Band |      | Maximum<br>System<br>Pressure |     | Maximum<br>Differential<br>Pressure |     |
|---------------------------------------------------------|-----------|-------------------|------|-------------------------------|-----|-------------------------------------|-----|
| in. wcd                                                 | mbar      | in. wcd           | mbar | psi                           | bar | psi                                 | bar |
| 20 to 150                                               | 50 to 375 | 5.0               | 12.4 | 3000                          | 210 | 1500                                | 100 |

## Product Specifications

|                                                |                 |                  |                         |
|------------------------------------------------|-----------------|------------------|-------------------------|
| Housing                                        |                 | Diaphragm/O-Ring |                         |
| Non-Hazardous Locations                        |                 | O-Ring           | Buna-N                  |
| Weatherproof                                   |                 | Diaphragm        | Kapton (Polyimide Film) |
| Top electrical conduit connection, 3/4" NPT(F) |                 | Pressure Port    |                         |
| Terminal block standard                        |                 | Connection Size  | 1/4" NPT(F)             |
| Material                                       | Aluminum        | Material         | 316SS                   |
| Detecting Element                              |                 |                  |                         |
| Designator                                     | DPDT            |                  |                         |
| Dead Band Multiplier                           | 4.0             |                  |                         |
| Rating                                         | 5 Amps @ 30 VDC |                  |                         |

## Non-Hazardous Service (Weatherproof):

