



Excellent Design & Manufacture

## Level Detectors

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### EDM mechanical level detectors

are rugged, industrial products specifically designed for versatility of application. This catalog contains application and ordering data for float and displacer-operated level detectors. Detectors are available with flanged or sealed chambers or as insertion models.

Options available for each type of detector include: detector type and number, housing type, chamber material, process connections, accessories, and more. Units may be customized to suit customers' needs.

Inside this catalog you will find solutions to your level sensing puzzles. EDM mechanical level detectors have many configurations available. If you don't see what you need, we will engineer a solution for your application.



### Features and Benefits

- Five-year warranty
- ASME Section IX and AWS qualified welding system
- Designed to ANSI/ASME B31.1 and B31.3 guidelines
- Hermetically sealed detecting mechanisms available
- Stainless steel detecting mechanisms
- High-temperature capability
- Wide variety of explosion-proof housings
- Versatile detecting mechanisms which retro-fit into other manufacturers' units
- Worldwide listings and certifications
- Quick worldwide delivery
- Only ASTM grade materials with certified mill test reports used
- GOST R Certificate for Russia
- 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 .

**EEF905-009042-009** mechanical level detectors are float operated, horizontal mounted with sealed,tamper-proof or flanged, serviceable chambers.

Model Number System

# EEF905-009042-009

Maximum Working Pressure

| Chamber Material | Pressure at Listed Temperature in psig (bar)* |              |               |               |               |               |
|------------------|---|--------------|---------------|---------------|---------------|---------------|
|                  | 100°F (38°C)                                  | 200°F (93°C) | 300°F (149°C) | 350°F (177°C) | 400°F (204°C) | 450°F (232°C) |
| A106B            | 500 (34.5)                                    | 500 (34.5)   | 500 (34.5)    | 486 (33.5)    | 473 (32.6)    | 460 (31.7)    |

Product Specifications

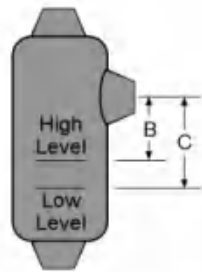
|                                  |                         |                            |                 |
|----------------------------------|-------------------------|----------------------------|-----------------|
| Chamber Material                 |                         | Trim Material              |                 |
| A106B Carbon Steel               |                         | Float/Displacer Material   | 316/316L SS     |
| with A105 and A234-WPB fittings  |                         | Attraction Sleeve          | 400 SS          |
| Housing                          |                         | Detecting Mechanism        |                 |
| General Purpose, NEMA 4 Housings |                         | Detecting Description      |                 |
| Enclosure Rating                 | NEMA 4, 4x (IP66)       | Hi-Temperature Dry Contact |                 |
| Description                      | Aluminum                | Detector Designator        | SPDT            |
| Electical/Pneumatic Connections  | 1" NPT                  | Minimum Temperature        | -15°F (-26°C)   |
| Process Connection               |                         | Maximum Temperature        | 400°F (204°C)   |
|                                  |                         | Detector Ratings           | 1.5A @ 20-30VDC |
|                                  |                         |                            |                 |
| Style                            | VH(Vertical/Horizontal) |                            |                 |
| Size                             | 1"                      |                            |                 |
| Connection Designator            | Socket Weld             |                            |                 |
| Minimum Specific Gravity         | 0.61                    |                            |                 |

Accessory Compatibility Chart

| Description           |
|-----------------------|
| Temperature Extension |

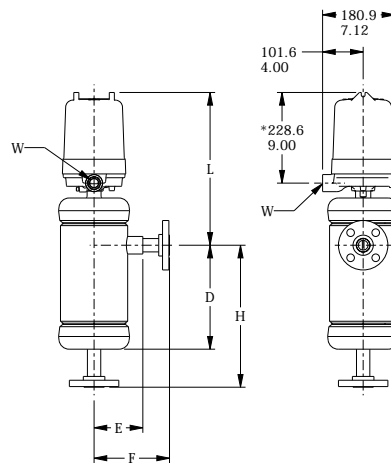
The straight temperature extension provides physical distance between the process and the detecting mechanism. It is constructed of a straight piece of pipe welded between the chamber and enclosing tube connection.

The chart here provides typical standard Set Points.



| Specific Gravity | B<br>inch (mm) | C<br>inch (mm) |
|------------------|----------------|----------------|
| .61              | 3 (76)         | 4-1/16 (103)   |
| 1.0              | 4-3/4 (121)    | 5-7/16 (138)   |

Dimensions listed are for reference only and are expressed as millimeters over inches. (Linear = mm/in.)



| D <sup>1, 2</sup> | E <sup>1, 2</sup> | F <sup>4</sup> | H <sup>4</sup> | L <sup>2</sup> |
|-------------------|-------------------|----------------|----------------|----------------|
| inch (mm)         | inch (mm)         | inch (mm)      | inch (mm)      | inch (mm)      |
| 10-1/2 (267)      | 3-3/4 (95)        | 6-1/2 (165)    | 14 (356)       | 14-3/8 (365)   |