

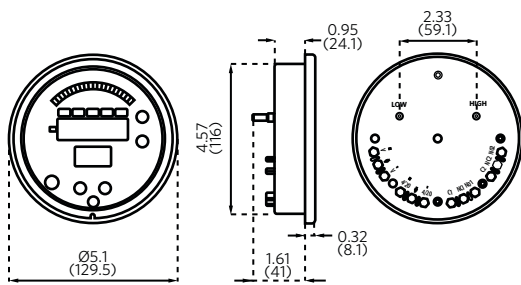
# SERIES A1 Digital Differential Pressure Gauge



- Mounts in Industry Standard Holes
- Universal Power 24 - 240 VAC/VDC
- Optional 4 - 20 mA output
- Accuracy 1.0%, 0.5% or 0.25%
- Large LED Display

The Series A1 digital differential pressure gauge is a patented microprocessor based digital pressure gauge for positive, negative, and differential measurement designed to be a direct replacement for mechanical gauges. The Series A1 differential pressure gauges utilize an extremely stable piezoresistive sensing technology to give a standard full scale accuracy of 1%. For applications requiring better accuracy, the A1 is available with 0.5% or 0.25% accuracy. The A1 pressure gauge has an optional 4-20 mA output for applications requiring an output signal. The A1 features a bright ½" LED display, which gives the gauge improved readability and precision. The A1 digital differential pressure gauges also feature 5 user selectable engineering units including in. w.c., mm w.c., cm w.c., kPa, and Pa. The Series A1 offers an improved look, and performance compared to mechanical gauges.

## DIMENSIONS



## SPECIFICATIONS

### Maximum Pressure:

Ranges -00 to -07 = 2 PSI (13.8 kPa)  
 Ranges -08 to -12 = 10 PSI (68.9 kPa)

**Media Compatibility:** Air and compatible non-combustible, non-corrosive gasses

**Accuracy:** 1.0%, 0.5% or 0.25%

### Temperature Ranges:

Compensated and Operating: -10° to 140°F (-23° to 60°C)

**Thermal Effect:** +/- 0.02% FS/°F

**Output Signal:** 4 - 20 mA (option)

**Loop Resistance:** 750 Ω Max (for internally sourced power); 1800 Ω Max (for externally sourced power of 36 VDC)

**Power Supply:** Universal 24 - 240 VAC or VDC

**Housing Material:** Glass Filled Nylon

**Enclosure Rating:** Designed to meet NEMA 4X (IP 65) face; with optional cover the entire product is weather-proof

**Electrical Connections:** screw terminals

**Response Time:** <100 ms

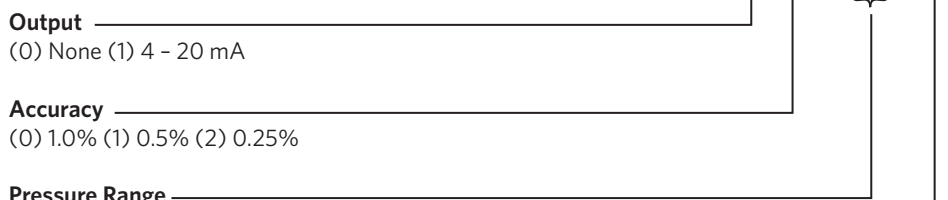
**Display:** 4 Digit, red LED, ½" (12.7 mm) digits

**Process Connections:** Push on connection for 3/16" (5 mm) tubing

**Agency Approvals:** CE

## PART NUMBER CONFIGURATION

Sample: A1010-03



**Output** \_\_\_\_\_  
 (0) None (1) 4 - 20 mA

**Accuracy** \_\_\_\_\_  
 (0) 1.0% (1) 0.5% (2) 0.25%

**Pressure Range** \_\_\_\_\_

| Number | Range (Pa/kPa) | Number | Range (Pa/kPa) | Number | Range (Pa/kPa) |
|--------|----------------|--------|----------------|--------|----------------|
| (-00)  | 0 - 0.25" (60) | (-05)  | 0 - 4" (1.0)   | (10)   | 0 - 20" (5.0)  |
| (-01)  | 0 - 0.5" (125) | (-06)  | 0 - 5" (1.25)  | (11)   | 0 - 30" (7.5)  |
| (-02)  | 0 - 1" (250)   | (-07)  | 0 - 8" (2.0)   | (12)   | 0 - 40" (10)   |
| (-03)  | 0 - 2" (500)   | (-08)  | 0 - 10" (2.5)  |        |                |
| (-04)  | 0 - 3" (750)   | (-09)  | 0 - 15" (3.75) |        |                |

\* All ranges are Bi-directional

### Options:

- P** 4 - 20 mA calibrated in Pa
- M** 4 - 20 mA calibrated in mm w.c.
- B** 4 - 20 mA scaled to bi-directional range (zero center)
- PB** 4 - 20 mA scaled to bi-directional range, calibrated in Pa
- MB** 4 - 20 mA scaled to bi-directional range, calibrated in mm w.c.

## ACCESSORIES

- **A-101** Weather-Proof Cover / Surface Mount Bracket
- **A-201** Rubber 90 degree fitting for 3/16" ID tubing
- **A-010** PG 21 Cable Gland for use with A-101 Cover