Low Pressure Differential Pressure Gauges with Electrical Output Signal
Type A2G-15

Applications
- For dry, clean, non-aggressive gases, air
- Monitoring of blowers and ventilators
- Filter monitoring via differential pressure
- Positive overpressure in clean rooms
- Positive and negative pressure in isolation chambers

Product Features
- Zero adjustment in front
- Simple mounting and dismounting
- Two-part construction (measuring element and case)
- With additional electrical output signal 0...10 V

Specifications

Design
Per EN 837-3 and HVAC regulations

Nominal size
4 1/2"

Accuracy
± 3.0 % of full span
± 5.0 % of full span, ranges ≤ 0.5 InWC (125 Pa)

Ranges
0 / 0.2 InWC (50 Pa) up to 0 / 50 InWC (12,500 Pa)

Compound ranges
Starting from -0.1 / +0.1 InWC (-25/+25 Pa)
(other pressure units and dual scales are available)

Pressure limitation
Steady: full-scale value
Fluctuating: full-scale value

Overpressure Safety
80 InWC (20 kPa)

Max working pressure (static pressure)
80 InWC (20 kPa)

Temperature limits
Ambient: -22 °F...176 °F (-30 °C... +80 °C)
Media: 3 °F...122 °F (-16 °C... +50 °C)

Temperature error
Additional error when temperature changes from reference temperature of 68 °F (20 °C) ± 0.5% of span for every 18 °F (10 °K) rising or falling

Ingress protection
NEMA 3 (IP 54 per EN 60529)
**Standard version**

**Process connection**
Plastic, lower mount (LM) or back mount G 1/8 female for hose connector

**Standard accessories**
- 3 case mounting screws
- Compression fitted M12, electrical connection
- Straight or angled hose barb adaptors 1/8" - 3/16"

**Diaphragm**
Silicone rubber

**Movement**
Frictionless magnetic transmissions

**Dial**
Aluminium, scale over 90 degrees.

**Pointer and mark pointer**
Plastic

**Set pointer on dial**
Red ABS plastic (standard)

**Housing**
Black thermoplastic, high impact resistant

**Window**
Polycarbonate

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**Electronics**

**Output signal**
0 … 10 V, 3-wire

**Power supply U_B**
0 … 10 V, 3-wire: 15 ... 35 V DC

**Terminal configuration**

**Permissible max. load**
0 … 10 V, 3-wire: \( R_A > 10 \, \Omega \)

**Isolation voltage**
500 VDC

**Electrical ingress protection**
Overvoltage protection: max. 35 V DC
Short-circuit resistance: Sig + to U_B -
Reverse voltage protection: U_B + to U_B -

**CE Conformity**
Pressure Equipment Directive: 97/23/EG
EMC-Directive: EN 61000-6-4 and EN 61000-6-2

**Relative humidity**
45 … 90 % rF, non-condensing

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**Optional features**

- Additional output signal
- Ingress protection NEMA 4 / IP 65
- Internationally recognized traceable calibration certificate
- Measuring hose PVC or silicone tube 1/8" or 1/4" ID, 80’ long
- 2 duct connectors
- Without mounting case
Dimensions in inches
Standard version

Wall mount, lower connection

Panel mount, back connection

1) Mounting for wall thickness from 0.04 to 2.76"