Differential Pressure Gauges with Electrical Output Signal
Model A2G-15, air2guide P+E

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

Special Features
- Zero adjustment in front
- Red mark pointer standard
- Simple mounting and dismounting
- Two-part construction (measuring element and case)
- With additional electrical output signal

Description

Design
Per EN 837-3 and HVAC regulations

Nominal size
4½"

Accuracy
± 3.0 % of full span

Ranges
0 / 0.2 lnWC up to 0 / 50 lnWC

Compound ranges
Starting from -0.1 / +0.1 lnWC
(Other pressure units and dual scales are available)

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

Overpressure Safety
80 lnWC

Max working pressure (static pressure)
80 lnWC

Temperature limits
Ambient: -22 °F...176 °F
Media: 3 °F...122 °F

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+68 °F): max. ± 0.5 % / 18 °F of full scale value

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, plastic
- 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

### Electronics

**Output signal**
4 … 20 mA, 2-wire or
0 … 10 V, 3-wire

**Power supply Ub**
4 … 20 mA, 2-wire: 14 … 35 V DC
0 … 10 V, 3-wire: 15 … 35 V DC

**Terminal configuration**

#### Output signal 4 … 20 mA, 2-wire

![Diagram of 4-20mA, 2-wire terminal configuration]

#### Output signal 0 … 10 V, 3-wire

![Diagram of 0-10V, 3-wire terminal configuration]

**Permissible max. load**
4 … 20 mA, 2-wire: \( R_A \leq (U_b - 15 V) / 0.02 A \) (max. 600 Ω)
0 … 10 V, 3-wire: \( R_A > 10 k\Omega \)

**Isolation voltage**
500 VDC

**Electrical ingress protection**
Overvoltage protection: max. 35 V DC
Short-circuit resistance: \( \text{Sig} + \text{to } U_b - \)
Reverse voltage protection: \( U_b + \text{to } U_b - \)

**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

### Optional features

- Ingress protection NEMA 4 / IP 65
- Internationally recognized traceable calibration certificate
- Measuring hose PVC or silicone, inner diameter 4 or 6 mm, length 25 m PVC or silicone tube 1/8" or 1/4":
  - ID, 80' long
- 2 duct connectors
- Without case
Dimensions in inches
Standard version

Wall mount, lower connection

Panel mount, back connection

Ordering information
Model / Connection location / Wall mount or panel mount / Scale range / Options

Modifications may take place and materials specified may be replaced by others without prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

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