

Differential Pressure Gauges Airbox with Differential Pressure Switch Type A2G-90

WIKA Datasheet A2G-90

Applications

- For monitoring the differential pressure of air and other non-inflammable and non-aggressive gases
- Monitoring of air filters, fans, industrial cooling circuits, flows in ventilation ducts and the control of air and fire dampers

Special Features

- Compact indicator and pressure switch fitted within a plastic case (Airbox)
- Single pole micro switch (SPDT)
- Switch point settable when installed
- All connections already pre-assembled

Description

The air2guide Airbox is a combination of a mechanical analogue indicator and a differential pressure switch, which have been fitted within a plastic case. The case is made from PC/ABS 1625 plastic (H x W x D = 9.45 x 7.52 x 4.33 inches) and with all connections built in. The cover is screwed on.

The ingress protection is IP 54.

The air2guide Airbox is ideally suited to the measurement and switching of overpressures and differential pressures in the measuring ranges from 0 ... 1 InWC to 0 ... 24 InWC.



Airbox with Differential Pressure Gauge and Differential Pressure Switch, Type A2G-90



Airbox opened

Standard version

Case

Plastic PC/ABS 1625

Dimensions

H x W x D = 9.45 x 7.52 x 4.33 inches

Cover

Screw retained

Operating temperature

Ambient: -22 ... +140 °C

Medium: -3.2 ... +122 °C

Ingress protection

NEMA 3 (IP 54 per EN 60529 / IEC 529)

Process connection

Aluminium, top mount,

Compression fitting for 1/8" or 1/4" hose ID

Electrical connection

L-connector DIN 43 650, 3-pin + PE

Weight

2.71 lbs.

Differential pressure gauge model A2G-10

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Design

Per EN 837-3 and ventilation and air conditioning (VAC) regulations

Nominal size in inches

4.33

Accuracy class

±3.0

Scale ranges

0 ... 1 InWC

0 ... 2 InWC

0 ... 3 InWC

0 ... 6 InWC

0 ... 8 InWC

0 ... 24 InWC

Overpressure safety

100 InWC

Max. working pressure (static pressure)

100 InWC

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+68 °F): max. ±0.4 % / 18 °F of full scale value

Differential pressure switch model A2G-40

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Design

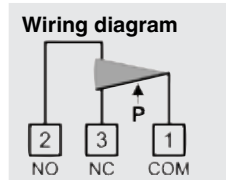
In accordance with the European low-voltage directive 73/23/EEC

Measuring ranges and accuracy of the switch point

Measuring range	Lowest limit	Highest limit
0.08 ... 0.8 InWC	±0.02 InWC	±0.08 InWC
0.12 ... 1.2 InWC	±0.02 InWC	±0.12 InWC
0.12 ... 2.0 InWC	±0.02 InWC	±0.12 InWC
0.16 ... 2.4 InWC	±0.02 InWC	±0.12 InWC
0.40 ... 6.0 InWC	±0.04 InWC	±0.20 InWC
2.00 ... 18 InWC	±0.20 InWC	±0.80 InWC

Micro switch

Change-over contact, silver contacts



1-3 opens / 1-2 closes on reaching the differential pressure

Contact rating

Measuring ranges	Contact rating		Contact material
	With resistive load	With inductive load	
0.08 ... 0.8 InWC	0.1 A / AC 250 V	-	Gold
0.12 ... 1.2 InWC	3 A / AC 250 V	2 A / AC 250 V	Silver
0.12 ... 2.0 InWC	3 A / AC 250 V	2 A / AC 250 V	Silver
0.16 ... 2.4 InWC	3 A / AC 250 V	2 A / AC 250 V	Silver
0.40 ... 6.0 InWC	3 A / AC 250 V	2 A / AC 250 V	Silver
2.00 ... 18 InWC	5 A / AC 250 V	2 A / AC 250 V	Silver

Options

- Window in the case cover for pressure switch with pressure switch display

Dimensions of the Airbox in inches

