

Differential pressure gauge Airbox with differential pressure switch Model A2G-90

WIKA data sheet PV 27.40



Applications

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

Special features

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



Airbox with differential pressure gauge and differential pressure switch, model A2G-90

Description

The Airbox model A2G-90 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 = 240 x 191 x 110 mm) and with all connections built in. The cover is screwed on. The ingress protection is IP 54.

The Airbox is ideally suited to the measurement and switching of overpressures and differential pressures in the measuring ranges from 0 ... 250 Pa to 0 ... 6,000 Pa.



Airbox opened

Standard version

Case

Plastic PC/ABS 1625

Dimensions

H x W x D = 240 x 191 x 110 mm

Cover

Screwed

Permissible temperature

Ambient: -30 ... +60 °C

Medium: -16 ... +50 °C

Ingress protection

IP 54 per EN 60529 / IEC 529

Process connection

Aluminium, top mount,

Bulkhead quick connector for hose, 4 or 6 mm inner diameter

Electrical connection

Angular connector DIN 43650,

3 pin + PE

Weight

1,230 g

Differential pressure gauge model A2G-10

Data sheet PM 07.40

Design

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

Nominal size in mm

110

Accuracy class

±3.0

Scale ranges

0 ... 250 Pa

0 ... 500 Pa

0 ... 750 Pa

0 ... 1,500 Pa

0 ... 2,000 Pa

0 ... 6,000 Pa

Overpressure safety

20 kPa

Max. working pressure (static pressure)

20 kPa

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):

max. ±0.5 %/10 K of full scale value

Differential pressure switch model A2G-40

Data sheet SP 69.02

Design

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

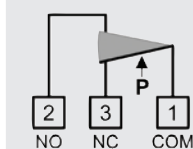
Measuring ranges and accuracy of the switch point

Measuring range	Lowest limit	Highest limit
20 ... 200 Pa	±5 Pa	±20 Pa
30 ... 300 Pa	±5 Pa	±30 Pa
30 ... 500 Pa	±5 Pa	±30 Pa
40 ... 600 Pa	±5 Pa	±30 Pa
100 ... 1,500 Pa	±10 Pa	±50 Pa
500 ... 4,500 Pa	±50 Pa	±200 Pa

Micro switch

Change-over contact, silver contacts

Contact arrangement



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

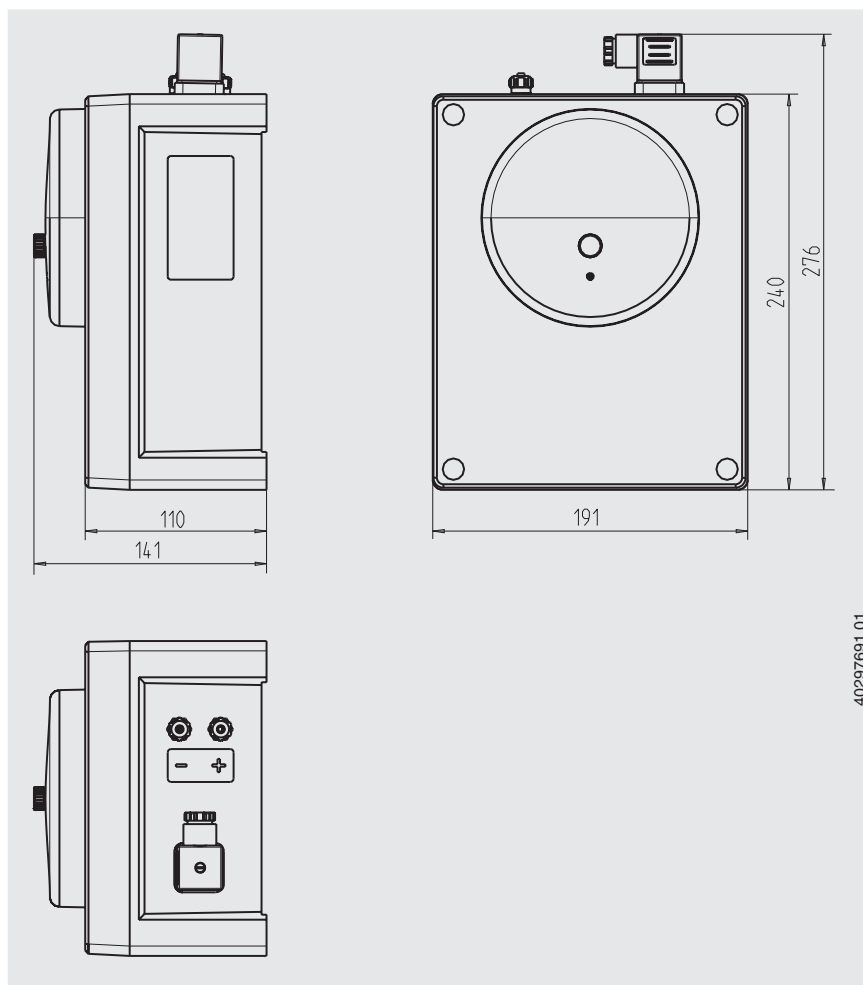
Contact rating

Measuring ranges	Contact rating		Contact material
	With resistive load	With inductive load	
20 ... 200 Pa	0.1 A / AC 250 V	-	Gold
30 ... 300 Pa	3 A / AC 250 V	2 A / AC 250 V	Silver
30 ... 500 Pa	3 A / AC 250 V	2 A / AC 250 V	Silver
40 ... 600 Pa	3 A / AC 250 V	2 A / AC 250 V	Silver
100 ... 1,500 Pa	3 A / AC 250 V	2 A / AC 250 V	Silver
500 ... 4,500 Pa	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 mm



Ordering information

Model / Scale range of the differential pressure gauge / Pressure switch / Hose connection inner diameter 4 or 6 mm / Options

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