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# Air flow transmitter Model A2G-25

WIKA data sheet SP 69.04



## **Applications**

- Pressure measuring instrument for measuring the volume flow in ventilation ducts of air and other non-inflammable and non-aggressive gases
- For operating fans/ventilators from various manufacturers

# **Special features**

- Simple installation
- User-friendly display
- Easy-to-read LCD display
- Temperature compensated
- Air flow calculation with k factor



Air flow transmitter model A2G-25

### Description

#### Design

In accordance with the CE requirements of EMC directive 89/336/EEC and ROHS directive 2002/95/EC

#### **Accuracy**

At 1,000 and 2,000 Pa: ±5 Pa + ±1.5 % of the display At 5,000 and 7,000 Pa:  $\pm 7$  Pa +  $\pm 1.5$  % of the display

#### Scale ranges

 $0 \dots 1,000, 0 \dots 2,000, 0 \dots 5,000 \text{ or } 0 \dots 7,000 \text{ Pa}$ Selectable units on the display: m<sup>3</sup>/s, m<sup>3</sup>/h, cfm, l/s, scfh, Ipm, mbar, mmWC, inchWC, kPa or Pa

#### Long-term stability

- Manual zero adjustment (standard) At 1,000 and 2,000 Pa: ±8 Pa At 5,000 and 7,000 Pa: ±24 Pa
- Automatic zero adjustment (option) ±1 Pa

### Maximum working pressure

25 kPa

### Permissible temperature

Ambient: -20 ... +70 °C Operation: -5 ... +50 °C

#### Permissible ambient humidity

0 ... 95 % rH, non-condensing

#### Ingress protection

IP 54 per EN 60529 / IEC 529

#### Weight

150 g



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### Standard version

#### **Process connection**

Connecting nozzle (ABS), for hoses with inner diameter 4 or 6 mm

#### Measuring element

Piezo measuring cell

#### **Display**

Alphanumeric display with menu-driven user interface

#### Case

Plastic (ABS), cap polycarbonate (PC)

### **Output signal**

V OUT DC 0 ... 10 V, P OUT DC 0 ... 10 V, Load R minimum 1 k $\Omega$  linear to output unit set

#### Supply voltage

AC 24 V or DC 24 V  $\pm 10~\%$ 

#### Standard accessories

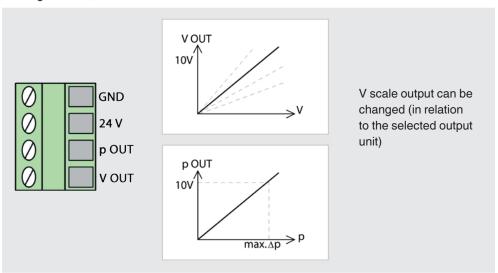
- 2 mounting screws
- 2 duct connectors
- 2 m PVC hose with 4 mm inner diameter

# **Options**

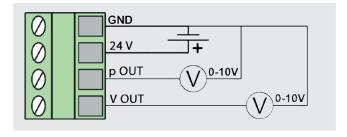
- Automatic zero adjustment (long-term stability ±1 Pa)
- Air flow calculation with Pitot tube (FloXact)

#### **Electrical connection**

Cable gland M16, screw terminals max. 1.5 mm<sup>2</sup>



# **Connection diagram**



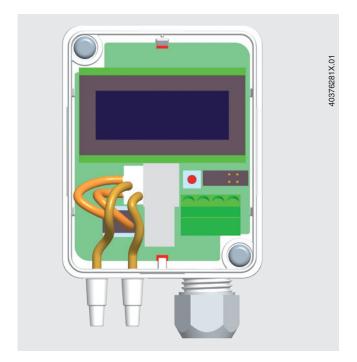
# Zero point adjustment

#### Manual zero adjustment (standard)

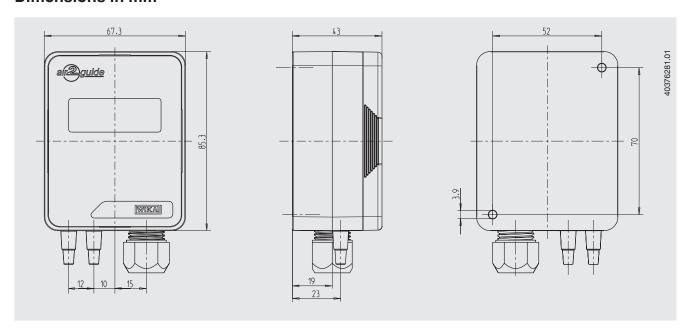
- 1. Both the + and the flow inputs must be disconnected.
- 2. Press the zero point button until the red LED lights up.
- 3. Wait until the LED switches off again. Now the instrument can be reconnected.
- 4. In normal operation, we recommend that a zero adjustment is carried out every 12 months.

#### Automatic zero adjustment (option)

The automatic zero adjustment adjusts the zero point from time to time so that a manual zero adjustment is not necessary. During the zero adjustment (3 seconds every 10 minutes), the output signal and the display show the last measured value.

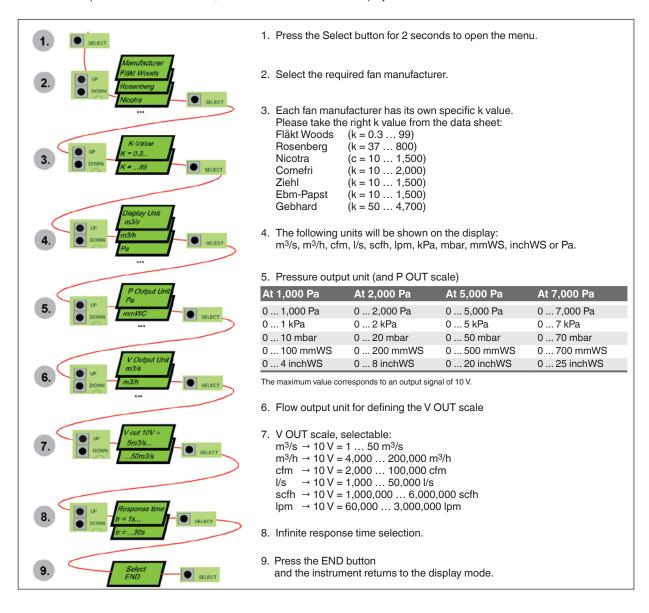


### **Dimensions in mm**



#### Menu selection and initialisation instructions for installation

If no button is pressed within 20 seconds, the instrument returns to the display mode.



#### **Ordering information**

Model / Scale range

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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