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: ± 7 Pa + ± 1.5 % of the display

Scale ranges

0 ... 1,000, 0 ... 2,000, 0 ... 5,000 or 0 ... 7,000 Pa Selectable units on the display: m^3/s , m^3/h , cfm, l/s, scfh, lpm, 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

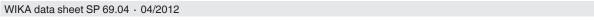
0 ... 95 % rH, non-condensing

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

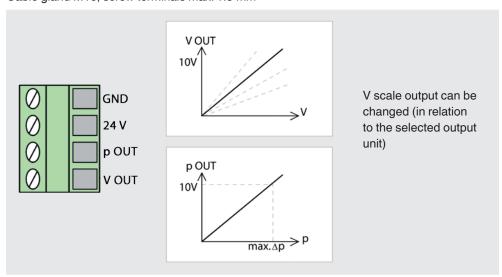
- 2 mounting screws
- 2 duct connectors
- 2 m PVC hose with 4 mm inner diameter

Options

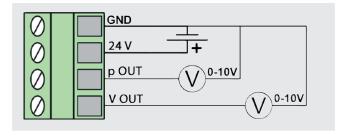
- Automatic zero adjustment (long-term stability ±1 Pa)
- Air flow calculation with Pitot tube (FloXact)

Electrical connection

Cable gland M16, screw terminals max. 1.5 mm²



Connection diagram



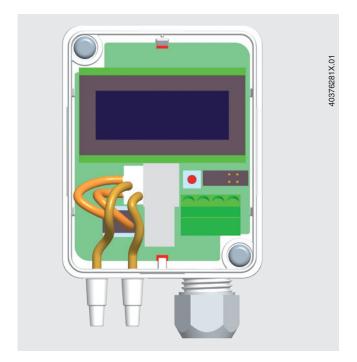
Zero point adjustment

Manual zero adjustment (standard)

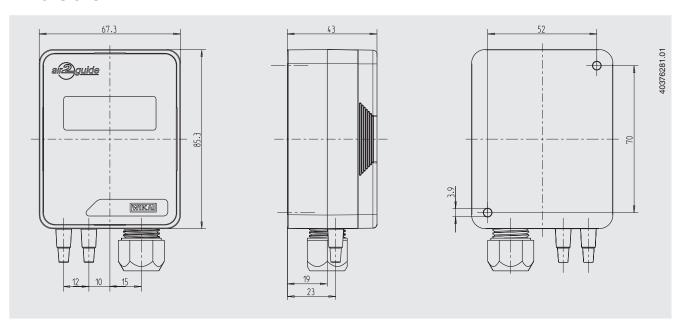
- 1. Both the + and the flow inputs must be disconnected.
- 2. Press the zero point button until the red LED lights up.
- 3. Wait until the LED switches off again. Now the instrument can be reconnected.
- 4. In normal operation, we recommend that a zero adjustment is carried out every 12 months.

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.

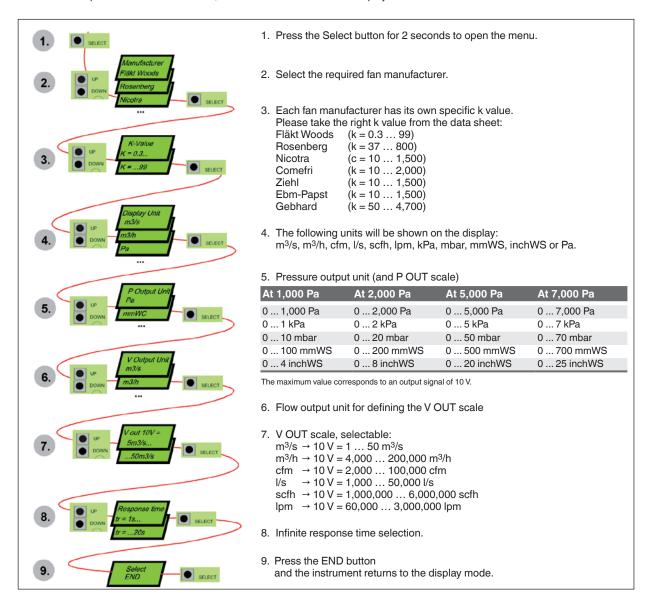


Dimensions in mm



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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