

# Air velocity meter

## Model A2G-20

WIKA data sheet SP 69.06



### Applications

- For measuring the air velocity and the temperature of air and other non-inflammable and non-aggressive gases in fresh and exhaust air ducts
- Designed for direct connection to control systems or the building automation system

### Special features

- Electrical output signal DC 0 ... 10 V or 4 ... 20 mA, can be selected directly at the instrument via jumpers
- Output signal for velocity and air temperature in one instrument
- With switching output (optional)
- Mounting flange for mounting on circular ventilation pipes or rectangular ventilation ducts
- Maintenance-free



Air velocity meter, model A2G-20

### Description

The model A2G-20 air velocity meter is used for measuring flow rates of gaseous media in ventilation and air-conditioning applications. In addition, the A2G-20 features integrated temperature measurement.

Electrical output signals for both measurands (DC 0 ... 10 V or 4 ... 20 mA; adjustable at the instrument via jumpers) enable the direct connection to control systems or the building automation system.

An additional switching output (option) enables a flexible operation for controlling further components of a ventilation and air-conditioning system.

The LC display (option) and the clear menu navigation enable a time-saving and simple commissioning.

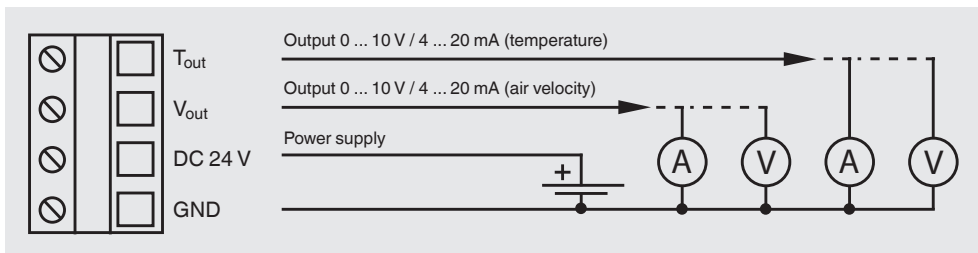
# Specifications

Air velocity meter, model A2G-20	
<b>Measuring element</b>	Pt1000 and NTC10k
<b>Measuring range</b>	0 ... 2 m/s, 0 ... 10 m/s or 0 ... 20 m/s can be selected at the instrument via jumpers 0 ... 50 °C
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>Air velocity           <ul style="list-style-type: none"> <li>Measuring range 0 ... 2 m/s: &lt; 0.1 m/s +5 % of reading</li> <li>Measuring range 0 ... 10 m/s: &lt; 0.5 m/s +5 % of reading</li> <li>Measuring range 0 ... 20 m/s: &lt; 1.0 m/s +5 % of reading</li> </ul> </li> <li>Temperature           <ul style="list-style-type: none"> <li>&lt; 0.5 °C (v &gt; 0.5 m/s)</li> </ul> </li> </ul>
<b>Power supply U<sub>B</sub></b>	DC 24 V/AC 24 V ±10 %
<b>Output signal</b>	<ul style="list-style-type: none"> <li>Air velocity           <ul style="list-style-type: none"> <li>DC 0 ... 10 V (linear to m/s): Load min. 1 kΩ</li> <li>4 ... 20 mA (linear to m/s): Load max. 400 Ω</li> </ul> </li> <li>Temperature           <ul style="list-style-type: none"> <li>DC 0 ... 10 V (linear to °C): Load min. 1 kΩ</li> <li>4 ... 20 mA (linear to °C): Load max. 400 Ω</li> </ul> </li> </ul>
<b>Electrical connection</b>	Screw terminals Cable gland M16 max. 1.5 mm <sup>2</sup>
<b>Case</b>	Plastic (ABS)
<b>Type of mounting</b>	Duct installation
<b>Standard accessories</b>	Mounting flange
<b>LC display (option)</b>	3 ½-digit display with backlighting Size: 46.7 x 12.7 mm
<b>Switching output (option)</b>	3 screw terminals max. 1.5 mm <sup>2</sup> (NC, COM, NO) Relay (potential-free, change-over contact, max. AC 250 V, 6 A, DC 30 V, 6 A, adjustable switching threshold and hysteresis)
<b>Permissible temperatures</b>	<ul style="list-style-type: none"> <li>Ambient temperature           <ul style="list-style-type: none"> <li>0 ... 50 °C, max. 85 % r. h.</li> </ul> </li> <li>Medium temperature           <ul style="list-style-type: none"> <li>0 ... 50 °C, max. 85 % r. h.</li> </ul> </li> </ul>
<b>Ingress protection</b>	IP54
<b>Weight</b>	220 g

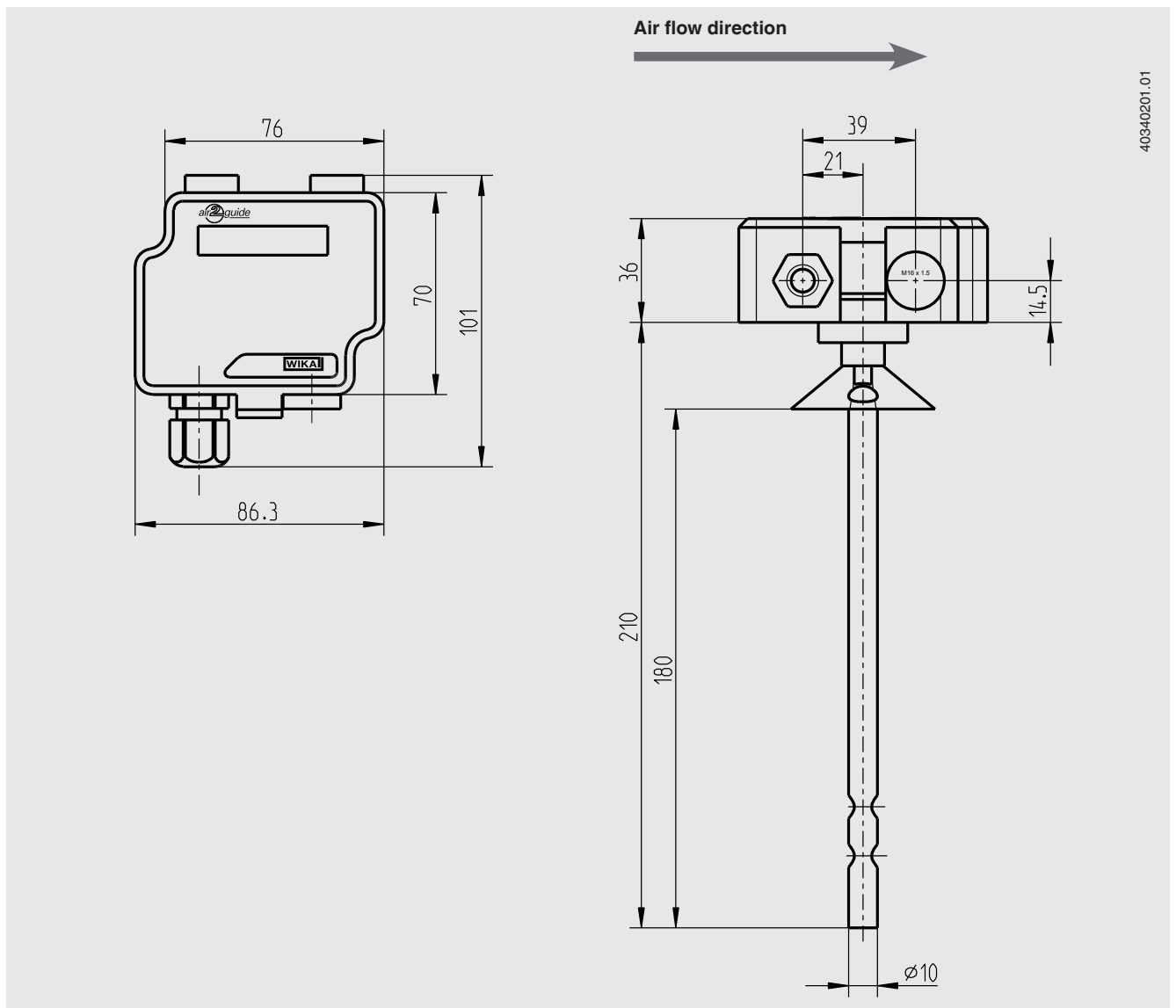
## Options

- LC display for measured value display
- LC display for measured value display and relay (potential-free, change-over contact, max. AC 250 V, 6 A, DC 30 V, 6 A, adjustable switching threshold and hysteresis)

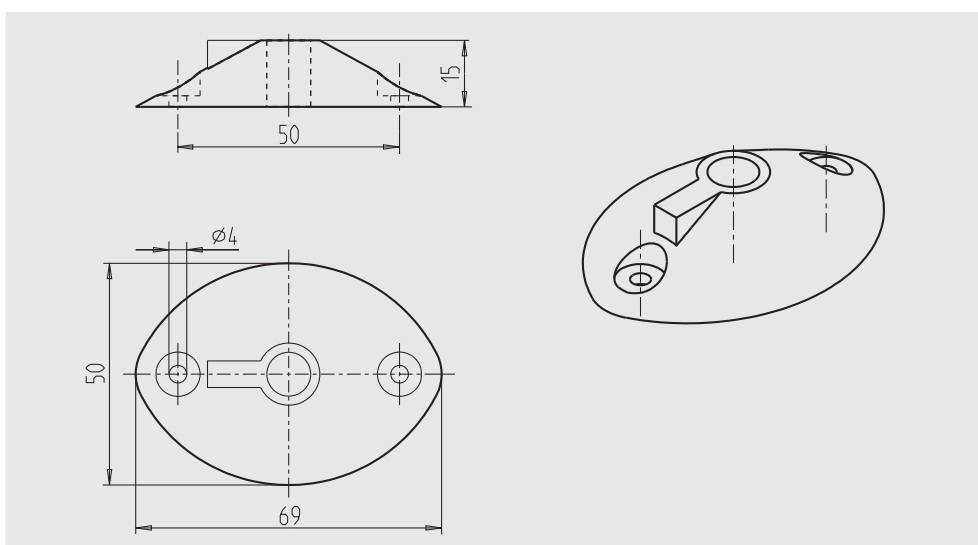
## Electrical connection



## Dimensions in mm



## Standard accessories: Mounting flange



## Certificates (option)

- 2.2 test report

## Scope of delivery

- Air velocity meter
- Mounting flange
- Available in three variants
  - Without display
  - With display
  - With display and switching output

## Ordering information

Model / Options

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