

# Differential pressure gauge Eco Model A2G-05

WIKA data sheet PM 07.42



## Applications

- Differential pressure monitoring for filters
- Pressure monitoring for ventilators
- Overpressure monitoring for clean rooms and also vacuum and overpressure monitoring for laboratories and operating rooms

## Special features

- Very small insertion depth
- Simple and fast mounting via threaded bezel
- Separated construction of measuring chamber and scale range
- Integrated sealing element for direct installation in a ventilation duct
- Individual design of dial and scale possible

## Description

The model A2G-05 differential pressure gauge Eco is used for monitoring the differential pressure in ventilation and air-conditioning applications. The measuring ranges cover from 0 ... 100 Pa to 0 ... 6,000 Pa. Compound measuring ranges can be fulfilled from -50 ... +50 Pa to -3,000 ... +3,000 Pa.

The separated construction of measuring chamber and display area ensures that impurities from the process air do not settle on the back of the window.

The differential pressure gauge is available in IP54 and IP65 ingress protection as well as in two different mounting versions.



Differential pressure gauge Eco, without built-in module, model A2G-05

### Installation without threaded bezel

Due to its small insertion depth, the model A2G-05 differential pressure gauge Eco in this version is ideally suited for recessed installation in doors, case panels and walls.

### Installation with threaded bezel

Depending on the orientation of the threaded bezel, the instrument can be mounted on wall thicknesses of 2 ... 10 mm [0.08 ... 0.39 in] or 29 ... 50 mm [1.14 ... 1.97 in] using the same components. This mounting version is notable for its fast and tool-free installation.


## Specifications

Basic information	
<b>Version</b>	<ul style="list-style-type: none"> <li>■ Standard version</li> <li>■ Silicone-free version</li> </ul>
<b>Nominal size</b>	110 [4.33 in]
<b>Measuring range</b>	<ul style="list-style-type: none"> <li>■ 0 ... 100 Pa to 0 ... 6,000 Pa</li> <li>■ -50 ... +50 Pa to -3,000 ... +3,000 Pa</li> </ul> Other compound measuring ranges on request
<b>Unit</b>	<ul style="list-style-type: none"> <li>■ Pa</li> <li>■ kPa</li> <li>■ inWC</li> <li>■ mmWC</li> <li>■ mbar</li> </ul>
<b>Scale</b>	<ul style="list-style-type: none"> <li>■ Single scale</li> <li>■ Dual scale</li> </ul>
<b>Accuracy class</b>	
Span ≥ 250 Pa	3.0
Span < 250 Pa <sup>1)</sup>	5.0
<b>Process connection</b>	Fixed connection in angular form for hoses with inner diameter 4 ... 6 mm [0.16 ... 0.24 in]
<b>Movement</b>	Contact-free transmission (SWISS MOVEMENT)
<b>Materials</b>	
Case components	Plastic, glass-fibre reinforced
Separating diaphragm	<ul style="list-style-type: none"> <li>■ Silicone</li> <li>■ EPDM (with silicone-free version)</li> </ul>
Window	Polycarbonate (UV stabilised)
Dial	Aluminium
Pointer	Plastic, black
<b>Mark pointer</b>	<ul style="list-style-type: none"> <li>■ Without</li> <li>■ Plastic, red</li> </ul>
<b>Medium</b>	<ul style="list-style-type: none"> <li>■ Air</li> <li>■ Non-flammable and non-aggressive gases</li> </ul>
<b>Max. operating pressure (static pressure)</b>	20 kPa
<b>Ingress protection per IEC/EN 60529</b>	<ul style="list-style-type: none"> <li>■ IP54</li> <li>■ IP65</li> </ul>
<b>Weight (pressure measuring system)</b>	240 g [0.53 lb]

1) Silicone-free version EPDM on request

Operating conditions	
<b>Medium temperature range</b>	-20 ... +50 °C [-4 ... +122 °F]
<b>Ambient temperature range</b>	-30 ... +80 °C [-22 ... +176 °F]

## Optional approvals

Logo	Description	Region
	<b>PAC Kazakhstan</b> Metrology, measurement technology	Kazakhstan

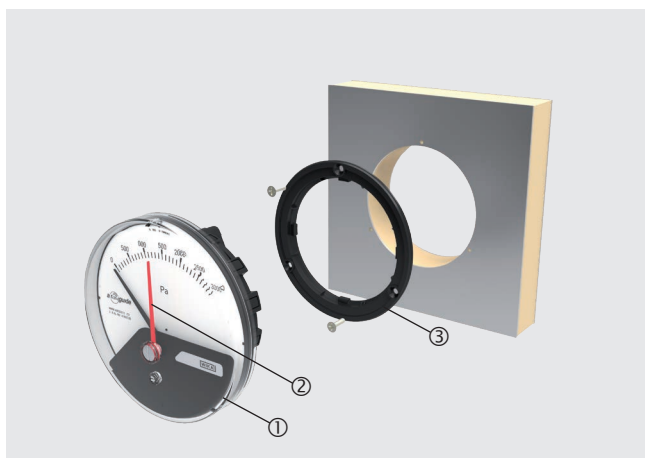
## Certificates

Description	
<b>Certificates</b>	<ul style="list-style-type: none"> <li>■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)</li> <li>■ 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metal parts, indication accuracy, calibration certificate)</li> <li>■ Measurement report per EN 837</li> </ul>

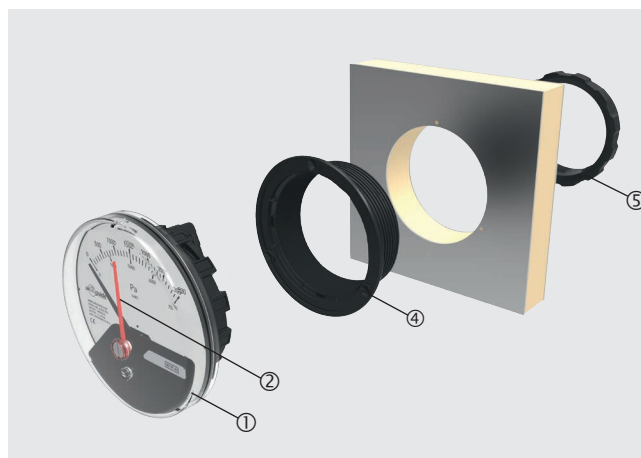
→ For approvals and certificates, see website

## Mounting versions

### With mounting ring <sup>1)</sup>



### With threaded bezel <sup>2)</sup>



1) Insertion depth 42 mm [1.65 in]

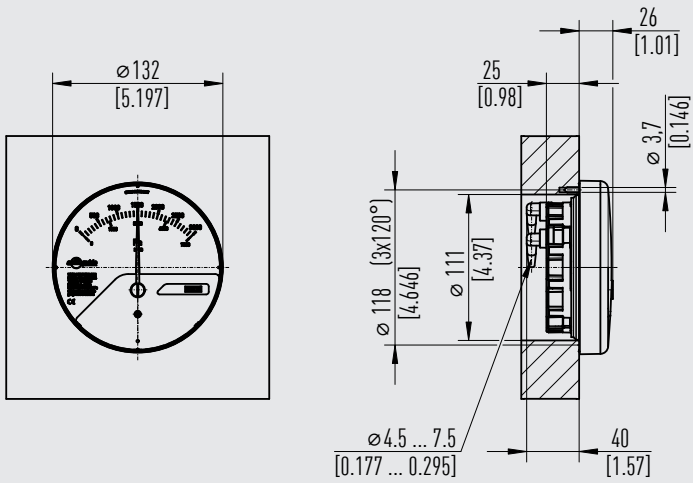
2) For wall thickness 2 ... 10 mm [0.08 ... 0.39 in] and 29 ... 50 mm [1.14 ... 1.97 in]

### Legend:

- ① Pressure measuring system
- ② Red mark pointer
- ③ Mounting ring
- ④ Built-in case
- ⑤ Threaded bezel

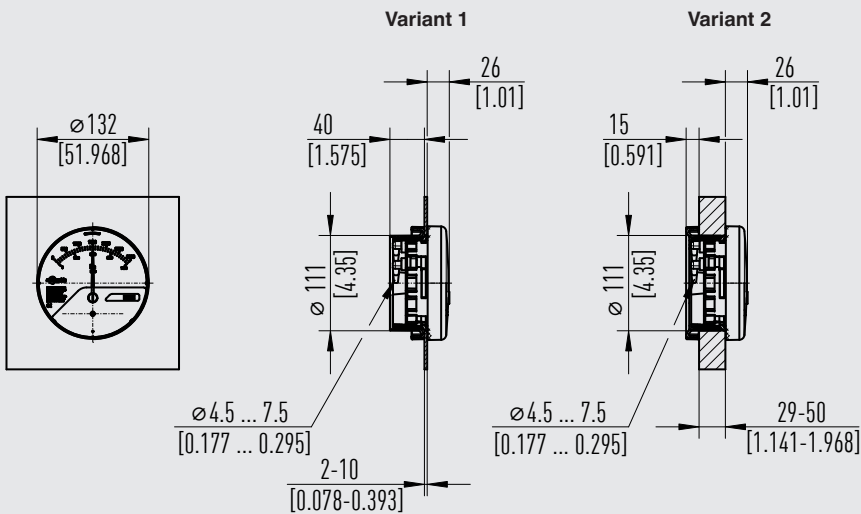
# Dimensions in mm [in]

## With mounting ring, back mount



40455783.01

## With threaded bezel, back mount







40455782.01

### Legend

Variant 1: Threaded bezel orientation for wall thicknesses 2 ... 10 mm [0.08 ... 0.39 in]

Variant 2: Threaded bezel orientation for wall thicknesses 29 ... 50 mm [1.14 ... 1.97 in]

## Accessories

Description	Order number
 <p><b>Static duct probes with combi hose connection for pressure measuring hoses Ø 4 ... 7 mm [0.16 ... 0.28 in]</b></p> <p>Insertion length 100 mm [3.94 in]</p> <p>Insertion length 150 mm [5.91 in]</p> <p>Insertion length 200 mm [7.87 in]</p>	40232981
	40232999
	40233006
 <p><b>Measuring hoses</b></p> <p>PVC hose, inner diameter 4 mm [0.16 in], roll of 25 m [82 ft]</p> <p>PVC hose, inner diameter 6 mm [0.24 in], roll of 25 m [82 ft]</p> <p>Silicone hose, inner diameter 4 mm [0.16 in], roll of 25 m [82 ft]</p> <p>Silicone hose, inner diameter 6 mm [0.24 in], roll of 25 m [82 ft]</p>	40217841
	40217850
	40217906
	40217914
 <p><b>Duct connectors for measuring hoses Ø 4 ... 6 mm [0.16 ... 0.24 in]</b></p>	40217507
 <p><b>Weather protection</b></p>	40241564

### Ordering information

Model / Version / Measuring range / Unit / Scale / Ingress protection / Mark pointer / Mounting version / Accessories / Approvals / Certificates / Options

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