Differential pressure sensor For ventilation and air-conditioning, with switch and digital display Model A2G-45

WIKA data sheet PE 88.01





for further approvals see page 4

Applications

- For monitoring the differential pressure of air and other non-inflammable and non-aggressive gases
- Differential pressure monitoring in filters and clean rooms

Special features

- Electrical output signal 0 ... 10 V (3-wire)
- Simple and quick mounting
- Maintenance-free
- Maximum operating pressure 20 kPa



Differential pressure sensor, model A2G-45

Description

The model A2G-45 differential pressure sensor combines a local differential pressure display, measured value transmission and differential pressure switching in a single instrument and is therefore mainly used in the ventilation and air-conditioning industry.

A second switch relay and/or an automatic zero point setting are optionally available. The compact and robust measuring instrument impresses with its intuitive operation. The setting of different switch points for rising and falling differential pressure make the A2G-45 very flexible and adaptable in use.

Through the use of the model A2G-45 differential pressure sensor the number of conventional measuring instruments otherwise used can be reduced considerably.

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Specifications

Differential pressure sensor with switch and digital display, model A2G-45				
Measuring range	Variant 1: -500 +500 Pa ¹⁾ -300 +300 Pa ²⁾ -250 +250 Pa ²⁾ -100 +100 Pa ²⁾	Variant 2: 0 2,500 Pa ¹⁾ 0 1,000 Pa ²⁾ 0 250 Pa ²⁾ 0 100 Pa ²⁾		
	8 measuring ranges can be selected at the instrument via jumpers (measuring ranges < 250 Pa: automatic zero point setting (AZ) recommended)			
Accuracy class	±1.5%			
Type of mounting	Wall mounting			
Measuring element	Piezo measuring cell			
Case	Plastic (ABS), plastic (PC)			
Process connection	For hoses with inner diameter 4 mm			
Output signal	$0 \dots 10 V_{\! \prime}$ load resistance min. 1 k $\! \Omega_{\! \prime}$ relay 250 V, DC 30 V, 6 A			
Power supply U _B	AC 24 V ±10 % or DC 21 35 V			
Electrical connection	Cable gland M16 and M20 Screw terminals max. 1.5 mm ²			
Permissible temperatures Ambient temperature Medium temperature	-20 +70 °C, 95 % r. h. (non-condensing) -10 +50 °C (-5 +50 °C for AZ models)			
Ingress protection	IP54			
Dimensions (H x W x D)	89.5 x 86.5 x 37.1 mm			
Weight	150 g			

¹⁾ Standard

Options

- Automatic zero point setting (AZ)
- 2 relay outputs (2R)
- Automatic zero point setting and 2 relay outputs (AZ-2R)
- 2 duct connectors
- 2 m PVC hose, inner diameter 4 mm

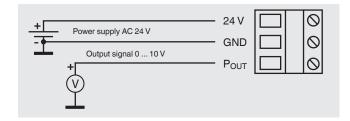
Automatic zero point setting (option)

The automatic zero point setting aligns the zero point from time to time so that a manual zero point setting is not necessary.

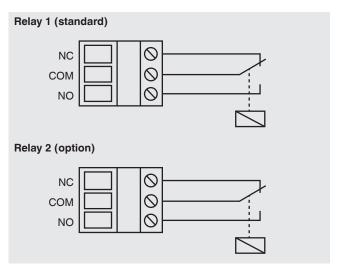
During the zero point setting (3 seconds every 10 minutes), the output signal and the display show the last measured value.

²⁾ Jumpers

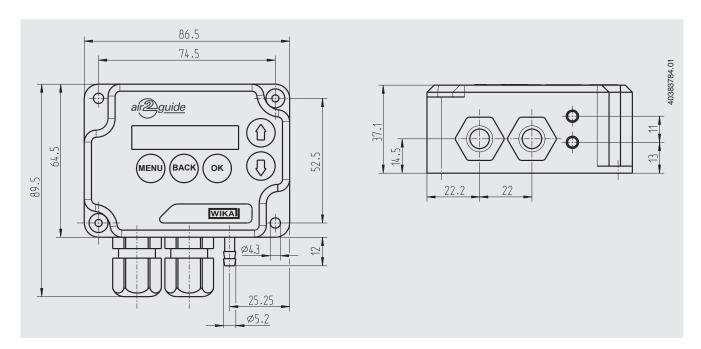
Electrical connection



If the voltages being switched via the relays are not in accordance with SELV, then the power supply and signal/control cables of the relays should be installed so that they are separated. A separate cable entry is available for both.



Dimensions in mm



Accessories

Description		Order number		
Measuring hoses				
	PVC hose, inner diameter 4 mm, roll at 25 m	40217841		
	PVC hose, inner diameter 6 mm, roll at 25 m	40217850		
	Silicone hose, inner diameter 4 mm, roll at 25 m	40208940		
	Silicone hose, inner diameter 6 mm, roll at 25 m	40208958		
Duct connector for hose 4 and 6 mm		40217507		

Approvals

Logo	Description	Country
CE	EU declaration of conformity EMC directive RoHS conformity WEEE directive	European Union
EAC	EAC (option) Import certificate	Eurasian Economic Community
©	GOST (option) Metrology, measurement technology	Russia

Certificates (option)

- 2.2 test report
- 3.1 inspection certificate

Approvals and certificates, see website

Scope of delivery

■ Differential pressure sensor with switch and digital display

Ordering information

Model / Measuring range / Options / Accessories

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