Electronic ventilation duct temperature sensor For ventilation and air-conditioning Model A2G-60

WIKA data sheet TE 62.90



Applications

- For measuring the temperature of gaseous media in heating, ventilation and air-conditioning systems
- Designed for connection to control and display systems

Special features

- Simple mounting, including mounting flange
- Compact and robust design
- Direct mounting on circular ventilation pipes or rectangular ventilation ducts
- Pt1000 or Ni1000 sensor
- Also available with electrical output signal (0 ... 10 V or 4 ... 20 mA)



Electronic ventilation duct temperature sensor, model A2G-60

Description

The model A2G-60 electronic ventilation duct temperature sensor is used for temperature measurement in heating, ventilation, air-conditioning and refrigeration systems and is primarily used in air ducts.

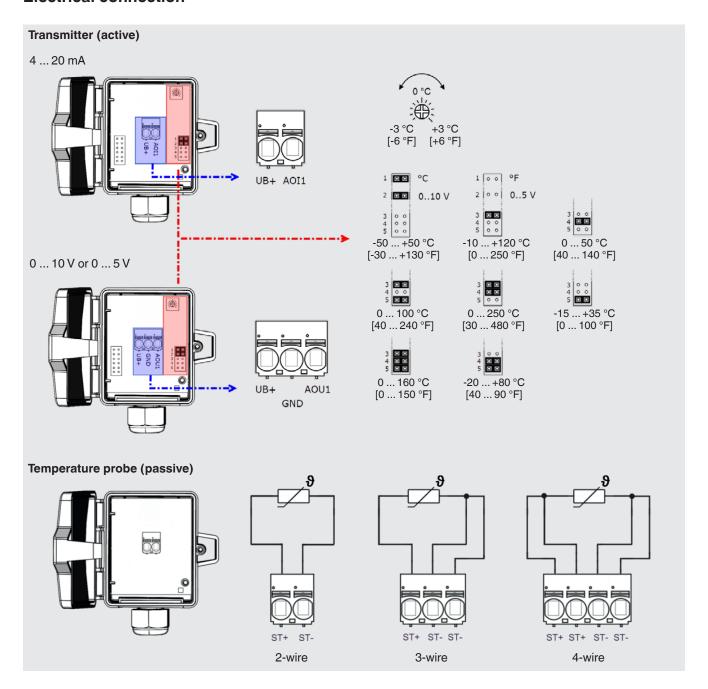
Mounting is performed using a mounting flange. In conjunction with an additional thermowell, the A2G-60 can also be used for temperature measurement in liquid media.

By selecting the appropriate measuring elements, the ventilation duct temperature sensor is compatible with all commonly used control systems. The A2G-60 is available with a Pt1000 or Ni1000 sensor, but also with an integrated transmitter (0 \dots 10 V or 4 \dots 20 mA).

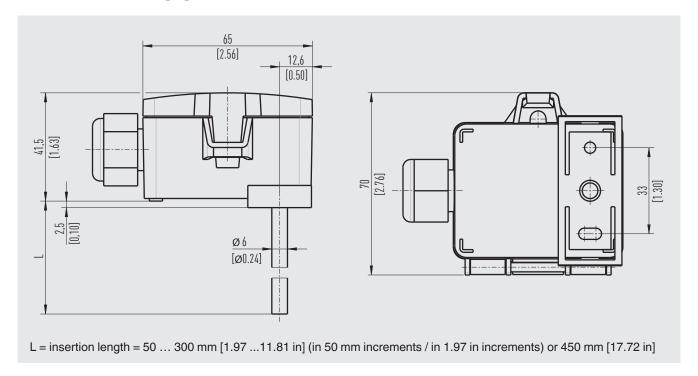
Specifications

Version	Temperature probe (passive)			
	Transmitter (active)	Voltage output		
		Current output		
Measuring range				
Temperature probe	-50 +160 °C [-58 +320 °F]			
Transmitter	0 160 °C [32 320 °F]			
	-50 +50 °C [-58 +1 -20 +80 °C [-4 +17 -15 +35 °C [5 95 ° -10 +120 °C [14 2 0 50 °C [32 122 °F 0 100 °C [32 212 °	Other measuring ranges adjustable at the transmitter: -50 +50 °C [-58 +122 °F] -20 +80 °C [-4 +176 °F] -15 +35 °C [5 95 °F] -10 +120 °C [14 248 °F] 0 50 °C [32 122 °F] 0 100 °C [32 212 °F] 0 250 °C [32 482 °F]		
Accuracy				
Temperature probe	Pt1000	±0.3 K		
	Ni1000	±0.4 K		
Transmitter	±0.5 K			
Output / Sensor				
Temperature probe	Pt1000Ni1000Available in 2-, 3- or 4-			
Transmitter, voltage output	0 10 V or 0 5 V, mi	$0 \dots 10 \ V$ or $0 \dots 5 \ V$, min. load $5 \ k\Omega$		
Transmitter, current output	4 20 mA, max. load 5	4 20 mA, max. load 500 Ω (2-wire)		
Power consumption				
Transmitter, voltage output	0.4 W (24 V =), 0.8 VA	0.4 W (24 V =), 0.8 VA (24 V ~)		
Transmitter, current output	0.5 W (24 V =)	0.5 W (24 V =)		
Electrical connection, cable entry		Removable plug-in terminal, max. 2.5 mm² / Flextherm M20, for cables with Ø 4.5 9 mm [0.18 0.35 in], removable		
Insertion length	■ 50 300 mm [1.97 ■ 450 mm [17.72 in]	 50 300 mm [1.9711.81 in] (in 50 mm increments / in 1.97 in increments) 450 mm [17.72 in] 		
Material				
Probe sleeve	Stainless steel 1.4571	Stainless steel 1.4571		
Case	Polycarbonate, pure w	Polycarbonate, pure white		
Mounting clip	Polycarbonate, pure w	Polycarbonate, pure white		
Relative humidity	0 85 %, not perman	0 85 %, not permanently condensing		
Permissible temperatures				
Head	Temperature probe	-35 +90 °C [-31 +194 °F]		
	Transmitter	-35 +70 °C [-31 +158 °F]		
Probe sleeve		■ -50 +160 °C [-58 +320 °F] ■ -80 +260 °C [-112 +500 °F]		
Ingress protection per IEC/EN 60529	IP65			
Supply voltage U _B				
Transmitter, voltage output	15 24 V = (±10 %) o	15 24 V = (±10 %) or 24 V ~ (±10 %) SELV		
Transmitter, current output	15 24 V = (±10 %) S	15 24 V = (±10 %) SELV		
Mounting		Mounting clip (included in delivery) → Other mounting options see "Accessories"		
Weight	150 g			

Electrical connection

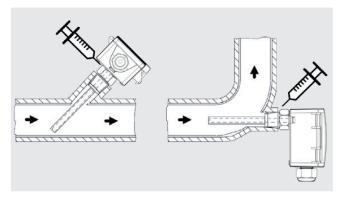


Dimensions in mm [in]



Thermowell for liquid media

Installation with a thermowell is necessary when used in liquid media. Thermal compound should be used to improve heat transfer from the thermowell to the temperature sensor.



Approvals

Logo	Description	Country
CE	EU declaration of conformity	European Union
	EMC directive	
	RoHS conformity	
	WEEE directive	

Certificates (option)

2.2 test report

→ Approvals and certificates, see website

Accessories

Description	Order number
Mounting base	40440263
Mounting flange	40440225
Syringe with thermal compound	40440262
Thermowell brass (MS63)	
Insertion length of the sensor L = 50 mm [1.97 in]	40440161
Insertion length of the sensor L = 100 mm [3.94 in]	40440164
Insertion length of the sensor L = 150 mm [5.91 in]	40440165
Insertion length of the sensor L = 200 mm [7.87 in]	40440166
Insertion length of the sensor L = 250 mm [9.84 in]	40440167
Insertion length of the sensor L = 300 mm [11.81 in]	40440168
Insertion length of the sensor L = 450 mm [17.72 in]	40440169
Thermowell stainless steel (V4A)	
Insertion length of the sensor L = 50 mm [1.97 in]	40440171
Insertion length of the sensor L = 100 mm [3.94 in]	40440172
Insertion length of the sensor L = 150 mm [5.91 in]	40440173
Insertion length of the sensor L = 200 mm [7.87 in]	40440174
Insertion length of the sensor L = 250 mm [9.84 in]	40440175
Insertion length of the sensor L = 300 mm [11.81 in]	40440176
Insertion length of the sensor L = 450 mm [17.72 in]	40440177

Ordering information

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Model / Version / Measuring range / Insertion length / Approvals / Certificates / Accessories / Options

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