

Duct sensor for relative humidity and temperature sensor Type A2G-70

WIKA Datasheet A2G-70

Applications

- For measuring relative humidity and temperature of gaseous media in heating, cooling and air-conditioning systems
- Designed for PLC's and other control and display panels

Special features

- Easy installation
- Direct assembly into the process
- Compact and robust design
- Comes standard with mounting flange



Duct sensor for relative humidity and temperature
Type A2G-70

Description

Design standards

CE-conformity: 2004/108/EG Electromagnetic compatibility

Product Safety : 2001/95/EG Product Safety

EMC: EN 607301: 2002

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Supply voltage

DC 15 ... 24 V / AC 24 V \pm 10%

Scale range / measuring range

Humidity: 0 ... 100% rH

Temperature: -20 ... +80°C

Power consumption

0.5 W / 1.7 VA

Transmitter outputs

Humidity: DC 0 ... 10 V, load: min. 5 kOhm

Temperature: DC 0 ... 10 V, load: min. 5 kOhm

Ingress protection

NEMA 4 (IP 65 per EN 60529 / IEC 592 (connecting head))

Accuracy

Humidity: \pm 3% between 20 ... 80% rH

Temperature: \pm 1.0% between +5 ... +45°C

Electrical connection

Screw connection M16 x 1.5 for wire with max. dia = 0.31"

The instrument is designed to operate with safety extra-low voltage (SELV). The transmitter must be operated at a constant operating voltage (± 0.2 V). Current/Voltage spikes from switching the power supply on or off must be prevented by the customer.

Insertion length L (standard)

5.51"
Other lengths on request

Operating temperature

Ambient: -4 ... +158 °F (-20 ... +70 °C)
Sensor tip: max. +140 °F (+60 °C)

Probe tube

PVC, black

Filter element

Stainless steel, mesh size 80 μ m

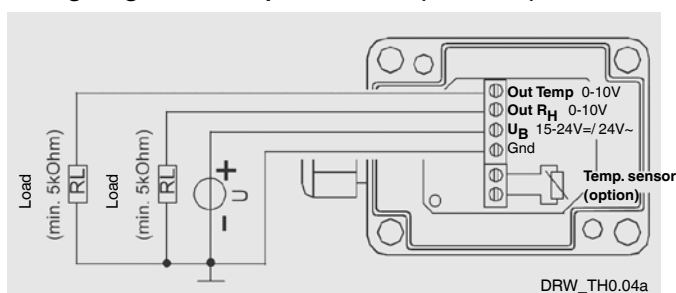
Connection head

PA6, white

Mounting instructions

Max. air speed 10 m/s

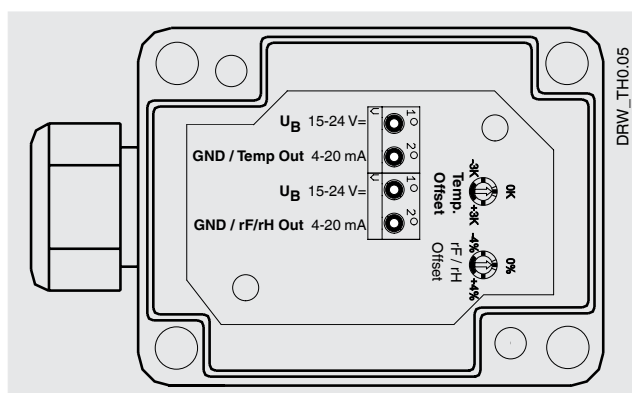
Wiring diagram for output 0 ... 10 V (standard)



Option

- Transmitter output 4 ... 20 mA
 - Humidity: 4 ... 20 mA, load <500 Ohm at DC 24 V
 - Temperature: 4 ... 20 mA, load <500 Ohm at DC 24 V

Wiring diagram for output 4 ... 20 mA (optional)



Note

If only the humidity output is used, "U_B 15-24 V= (Temp.)" has to be bridged to "U_B 15-24 V= (rF/rH)", and the temperature output "GND / Temp. Out 4-20 mA" has to be bridged to "GND" of the power supply.

Dimensions in inches

