Duct humidity temperature sensor
Type A2G-70, air2guide T+H

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

Description

Design standards
- CE-conformity: 2004/108/EG Electromagnetic compatibility
- Product Safety: 2001/95/EG Product Safety
- EMC: EN 607301: 2002
- Product Safety: EN 607301: 2002

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))

Scale range / measuring range
- Humidity: 0 ... 100 % rH
- Temperature: -4 ... +176 °F
- Humidity: ±3 % between 20 ... 80 % rH
- Temperature: ±1.0 % between +41 ... +113 °F
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
Sensor tip: max. +140 °F

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.

Probe tube
PVC, black

Filter element
Stainless steel, mesh size 80 µm

Connection head
PA6, white

Mounting instructions
Max. air speed 10 m/s

Mounting flange MF19-PA

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PVC, black

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Mounting flange MF19-PA
The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.