Duct sensor for relative humidity and temperature sensor
Type 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

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 ±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: ±3% between 20 … 80% rH
- Temperature: ±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)

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