

Duct Sensor Humidity / Temperature

For measuring the relative or absolute humidity and temperature in duct applications. The measured values and absolute humidity, dewpoint and enthalpy are transmitted over BACnet MS/TP. Temperature and relative humidity are available as 0 to 5/10 VDC outputs.



## 22DTH-56M





Type Overview

	Туре	Output Signal	Output Signa Active Temperature	Active Humidity		
	22DTH-56M	BACnet	DC 05 V, DC 010 V	DC 05 V, DC 010 V	-	
Technical Data						
Electrical Data	Power Supply DC		15.	24 V, ±10%, 0.7 W		
	Power Supply AC Electrical Connection Cable Entry			24 V, ±10%, 1.8 VA		
				removable spring loaded terminal block max. 11 GA [2.5 mm²]		
				cable gland M20 2 x Ø6 mm, with strain relief 2 x Ø6 mm, 1/2" conduit adapter included		
Functional Data	Sensor Technology Communicative control			polymer capacitive sensor with stainless steel wire mesh		
				BACnet MS/TP (Details see seperate document "Sensor BACnet PICS")		
	Output Signal Active Note		out	output DC 0 to 5/10 V selectable with switch		
	Media		air			
Measuring Data	Measured Values Measuring Range Humidity Measuring Range Temperature Settings		rela dev ent	temperature relative humidity dew point enthalpy absolute humidity		
				0 to 100% RH selectable via BACnet		
			sel Att res	-30°F to 195°F [-35°C to 90°C] selectable via BACnet Attention: max. measuring temperature is restricted by max. medium temperature (see Safety data)		
	Measuring Range Absolute Humidity			0 to 80 g/m³ selectable via BACnet		
	Measuring Range Enthalpy			0 to 85 kJ/kg selectable via BACnet		
	Measuring Range Dew Point			0°F to 200°F [-20°C to 80°C] selectable via BACnet		
	Accuracy Humidity		±29	±2% between 10 to 90% RH @ 70°F [21°C]		
	Accuracy Temperature		±0.	±0.9°F @ 77°F [±0.5°C @ 25°C]		
	Operating Con	dition Air Flow	ma	x. 40 ft/s [12 m/s]		
Materials	Cable Gland			6, black		
	Housing		Y6 bas Y6	ver: lexan, Belimo ora OR se: lexan, Belimo orar OR al: 0467 NBR70, black	nge NCS S0580-	

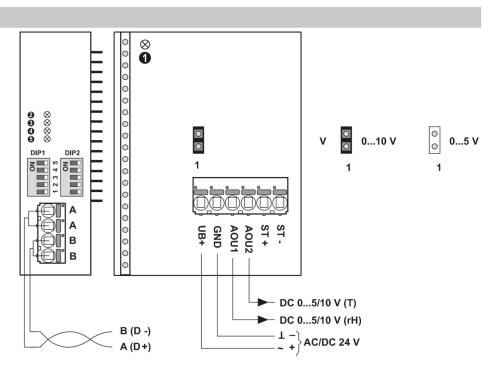
BELI	MO®

Sensor Datasheet

connect to live/operating equipment.         Please comply with         Local laws, health & safety regulations, technical standards and regulations         Condition of the device at the time of installation, to ensure safe installation         This data sheet and installation manual         Remarks         Build-up of Self-Heating by Electrical Dissipative Power         Temperature sensors with electronic components always have a dissipative power which affects the temperature measurement of the ambient air. The dissipation in active temperature sensors shows a linear increase with rising operating voltage. This dissipative power should be taken into account when measuring temperature. As Belimo transducers work with a variable operating voltage, only one operating voltage can be taken into consideration, for reasons of production engineering. Transducers 0 to 10 V / 4 to 20 mA have a standard setting at an operating voltage of DC 24 V. That means, that at this voltage, the expected measuring error of the output signal will be the least. For other operating voltages, the offset error will be increased by a changing power loss of the sensor					
Medium Temperature       -30°F 19 160°F [-35°C to 70°C]         Operating Condition Air Flow       max. 40 0ts 1(1 ms)         Protection Class IEC/EN       Ill is adrey varia-dw volge (adv)         Protection Class IEC/EN       Ill is adrey varia-dw volge (adv)         EU Conformity       CE Marking         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2.13         Degree of Protection IEC/EN       IP65         Degree of Protection IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2.13         Certification IEC/EN       IEC/EN 60730-1 and IEC/EN 60730-2.13         Degree of Protection NEMA/ UL       NEMA 4X         Quality Standard       ISO 9001         Weight       0.22 lbs         Safety Notes       The installation and assembly of electrical equipment should only be performed by authorized presonnel.         Degree of Protection NEMA VUL       NeuMonton Vite Vite Vite Vite Vite Vite Vite Vite	Safety Data	Ambient Humidity	85% RH non-condensing		
Operating Condition Air Flow         max: 40 ft/s [12 m/s]           Protection Class (EC/EN         III safety extra-flow voltage (selv)           Protection Class UL         UL Class 2 Supply           EU Conformity         CE Marking           Certification IEC/EN         IEC/EN 60730-1 and IEC/EN 60730-2:13           Certification IEC/EN         IEC/EN 60730-1 and IEC/EN 60730-2:13           Certification UL         pending           Degree of Protection NEMA/UL         NEMA 4X           Quality Standard         ISO 9001           Weight         0.22 lbs           Safety Notes         The installation and assembly of electrical equipment should only be performed by authorized personnel.           The product should only be used for the intended application. Unauthorized modifications are prohibited The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or if the angulations           Please comply with effor gaulations, technical standards and regulations           • Condition of the device at the time of installation, to ensure safe installation           • The idea sheet and installation manual           Remarks           Build-up of Self-Heating by Electrical Emperature sensors with electronic components always have a dissipative power which affects the transe at power increase with inegree sheet and installation manual           Application Notice for Humidity Sensorese		Ambient Temperature	-30°F to 120°F [-35°C to 50°C]		
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Optional Accessories Description Type	Scope of Delivery	strain relief Ø6 to 8 mm cable gland nut conduit 1/2" NPT, 2 x Ø6 m cable gland nut PG11, Ø6 to 10 mm	ım		
· · · · · · ·	Optional Accessories	-	Туре		
		mounting flange for duct humidity and CO <sub>2</sub>	sensor A-22D-A34		



## Wiring Diagram



(1) and (5): Status LED
(2) red: Error
(3) yellow: Tx
(4) yellow: Rx
(4) Detailed documentation

## Notes Wiring RS485

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Connection via safety isolating transformer.

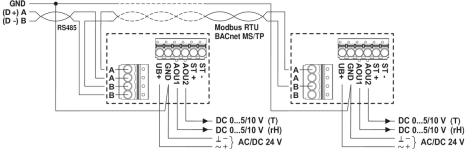
Termination (DIP1 & DIP2).

Parallel connection of other actuators possible. Observe the performance data.

The wiring of the line for Modbus (RTU) / BACnet (MS/TP) is to be carried out in accordance with applicable RS485 regulations.

Modbus / BACnet: Supply and communication are not galvanically isolated. Connect earth signal of the devices with one another.

The separate document, BACnet PICS, informs about the PICS, MAC addressing and bus



Wiring RS485 (Modbus RTU & BACnet MS/ TP)



Dimensions

