



Description

- Temperature and relative humidity measuring device that converts temperature and humidity signals into a standard electrical output signal.
 - DC Current 4-20mA
 - DC Voltage 0-10VDC
 - RS-485 (MODBUS RTU Protocol),
Baud Rate : 2400, 4800, 9600, 19200, 38400
- Temperature Range 0-100°C.
- Humidity Range 0-100% RH.
- There are 2 size of long probe tube (Probe made of stainless material).
 - Probe tube length 300 mm.
 - Probe tube length 500 mm.
- Suitable for measuring temperature and humidity in ovens up to 100 °C, dehumidifier tanks, cabinets, sterilizing tank and rooms. Install by inserting the probe into the measuring space while keeping the head with the electronic circuit outside, allowing use in high-temperature environments.
- Equipped with a filter at the probe tip to protect against dust, and a flange for easy installation.

Specification

Model.		RHM-004-00	RHM-004-01
Power Supply		24VDC (15-30VDC)	24VDC (15-30VDC)
Power Consumption		<1VA	<1VA
Input	Input Type	Humidity 0-100%	Humidity 0-100%
		Temperature 0-100 °C	-
	Accuracy Humidity	< ± 3% RH (0 to 80% RH)	< ± 3% RH (0 to 80% RH)
	Accuracy Temperature	± 1 °C (0 to 60 °C)	-
	Stability-RH Sensor	± 1% RH/Year	± 1% RH/Year
	Response Time-RH Sensor	<60 Sec Typical Without Filter	<60 Sec Typical Without Filter
Output	DC Voltage	Humidity 0-10VDC	Humidity 0-10VDC
		Temperature 0-10VDC	-
Ambient operation	Temperature	-10 °C to 60 °C	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing	85 % RH Non-Condensing
Ambient storage	Temperature	-20 °C to 80 °C	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing	85 % RH Non-Condensing
Protection Degree		IP65	IP65
Installation		Screw	Screw
Material	Housing	Aluminium and Stainless	Aluminium and Stainless
	Filter Head	Metal Sintered(150 °C)	Metal Sintered(150 °C)
Size		Core 300xØ19 mm.	Core 300xØ19 mm.
Weighth		770 g.	770 g.

Specification(continue)

Model.		RHM-005-00	RHM-005-01
Power Supply		24VDC (15-30VDC)	24VDC (15-30VDC)
Power Consumption		<1VA	<1VA
Input	Input Type	Humidity 0-100%	Humidity 0-100%
		Temperature 0-100 °C	-
	Accuracy Humidity	< ± 3% RH (0 to 80% RH)	< ± 3% RH (0 to 80% RH)
	Accuracy Temperature	± 1 °C (0 to 60 °C)	-
	Stability-RH Sensor	± 1% RH/Year	± 1% RH/Year
Response Time-RH Sensor		<60 Sec Typical Without Filter	<60 Sec Typical Without Filter
Output	DC Current	Humidity 4-20mA	Humidity 4-20mA
		Temperature 4-20mA	-
Ambient operation	Temperature	-10 °C to 60 °C	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing	85 % RH Non-Condensing
Ambient storage	Temperature	-20 °C to 80 °C	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing	85 % RH Non-Condensing
Protection Degree		IP65	IP65
Installation		Screw	Screw
Material	Housing	Aluminium and Stainless	Aluminium and Stainless
	Filter Head	Metal Sintered(150 °C)	Metal Sintered(150 °C)
Size		Core 300 x Ø19 mm.	Core 300 x Ø19 mm.
Weigth		770 g.	770 g.

Model.		RHM-006-00
Power Supply		24VDC (15-30VDC)
Power Consumption		<1VA
Input	Input Type	Humidity 0-100%
		Temperature 0-100 °C
	Accuracy Humidity	< ± 3% RH (0 to 80% RH)
	Accuracy Temperature	± 1 °C (0 to 60 °C)
	Stability-RH Sensor	± 1% RH/Year
Response Time-RH Sensor		<60 Sec Typical Without Filter
Output	Protocol	RS485 (MODBUS RTU PROTOCOL)
	Baud Rate	2400, 4800, 9600, 19200, 38400 bps
Ambient operation	Temperature	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing
Ambient storage	Temperature	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing
Protection Degree		IP65
Installation		Screw
Material	Housing	Aluminium and Stainless
	Filter Head	Metal Sintered(150 °C)
Size		Core 300 x Ø19 mm.
Weigth		770 g.

Wiring Diagram

RHM - 004 - 00

1 : +  Supply 24 VDC
2 : -
3 : - COM/GND
4 : Humidity 0-100% RH (0-10 VDC)
5 : Temp 0-100 °C (0-10 VDC)

RHM - 004 - 01

1 : + } Supply 24 VDC
2 : - }
3 : - COM/GND
4 : Humidity 0-100% RH (0-10 VDC)

RHM - 005 - 00

1 : +  Supply 24 VDC
2 : -
3 : - COM/GND
4 : Humidity 0-100% RH (4-20 mA)
5 : Temp 0-100 °C (4-20 mA)

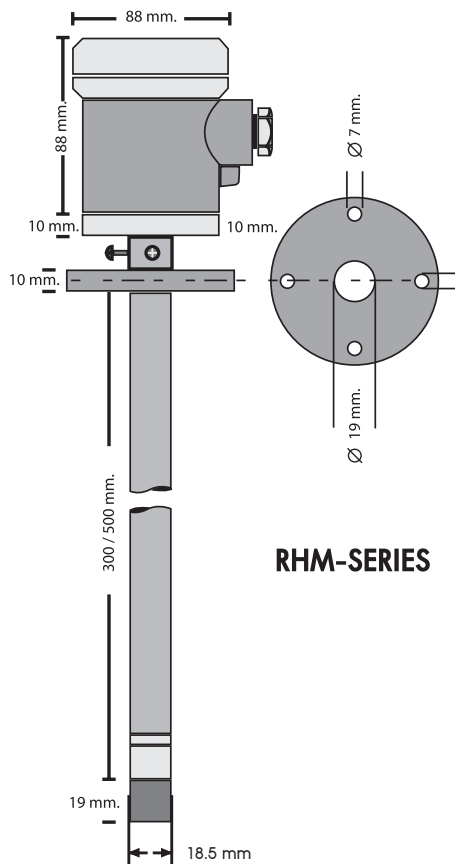
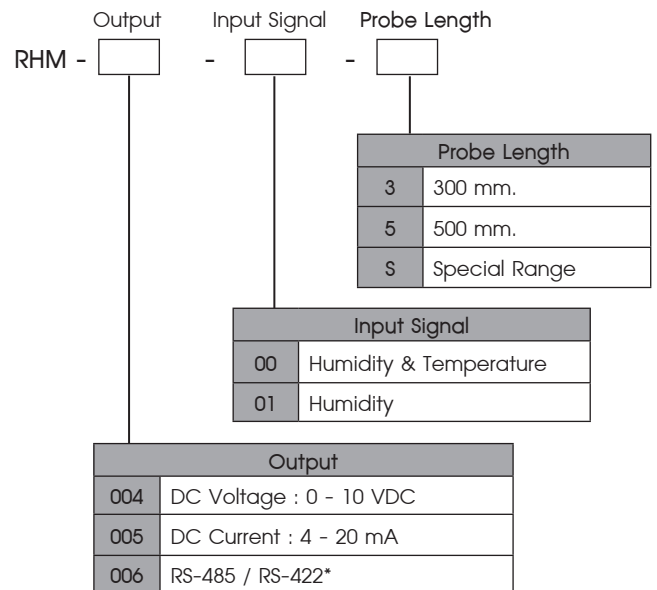
RHM - 005 - 01

1 : +  Supply 24 VDC
2 : -
3 : - COM/GND
4 : Humidity 0-100% RH (4-20 mA)

RHM - 006

1: + } Supply 24 VDC
2: - }
3: B } RS-485
4: A }

Dimension

**Ordering Code**

*Able to choose in model Input 00 only.