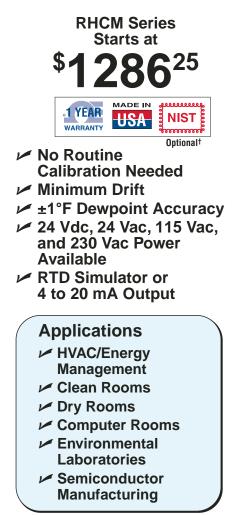
Dewpoint Transmitters Chilled Mirror Technology



The RHCM Series is a family of low-cost, high-performance chilled mirror dewpoint transmitters. The sensor provides accurate long-term repeatability and high reliability for process control and energy management. The RHCM-10 sensor electronics are housed in a rugged enclosure that can be wall mounted for climate control. The RHCM-20 and RHCM-30 sensors are designed to be either pipe or duct mounted for process control in HVAC/energy management applications. Field calibration is not required and ambient temperature effects, hysteresis, and calibration drift with age are all virtually eliminated.

The RHCM Series offers a wide range of user-specified power inputs including 24 Vdc, 24 Vac, 115 Vac, and 230 Vac, encompassing many applications. The user-specified outputs include 100 Ω Platinum



All models shown smaller than actual size.

RHCM-10 wall mount, \$1417.50

RTD (4-wire) or 4 to 20 mA, which can be scaled over 3 different temperature ranges of 0 to 100°F, 0 to 50°C, and -40 to 140°F. Either output can be directly connected to a panel meter, controller, or data acquisition system.

Specifications

Accuracy: ±1.0°F, max Repeatability: ±1.0°F, max Hysteresis: None

Response Time: 2-min, duct/pipe; 4-min, wall Power: 24 ±6 Vdc @ 350 mA; 24 Vac @ ±10%; 115 Vac @ ±10%; 230 Vac @ ±10%

Power Consumption: 10 W max

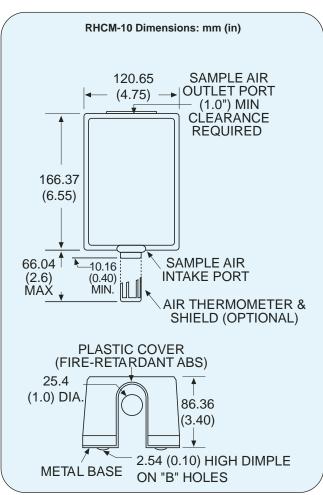
RTD Output: 100 Ω Pt, 4-wire **Operating Range, Sensor:** -18 to 71°C (0 to 160°F)

Current Output: 4 to 20 mA, scaled to range of 0 to 100°F, 0 to 50°C or -40 to 140°F; all ranges also provide 1 to 5 Vdc using 250 Ω shunt

Operating Range, Housing:

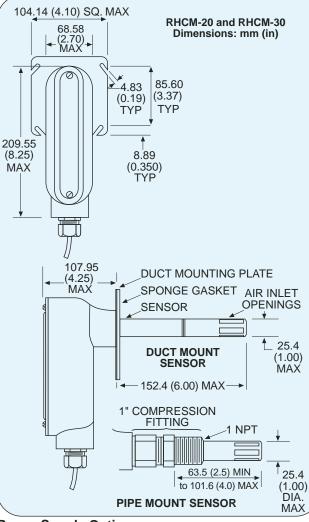
0 to 50°C (32 to 120°F) Flow Rate: 300 to 3000' per minute (duct/pipe mount) Max Pressure: 0 to 5 psig Humidity: 10 to 90% RH @ 27°C (80°F) Ship Weight: 4.55 kg (10 lb) Dry Weight: 2.73 kg (6 lb)

+ Refer to footnote on page Hu-46 for NIST calibration ordering information.



Output Options

Order Code	Add'l Price	Output (Scale)
PT100	N/C	100 Ω RTD
100F	\$157.50	4 to 20 mA (0 to 100°F)
50C	157.50	4 to 20 mA (0 to 50°C)
140F	157.50	4 to 20 mA (-40 to 140°F)



Power Supply Options

Order Code	Add'l Price	Description	
1	N/C	24 Vdc	
2	\$173.25	24 Vac	
3	173.25	115 Vac	
4	173.25	230 Vac	

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To Order (Specify Model Number)		
Model No.	Price	Description
RHCM-10-(*)-(**)	\$1417.50	Wall mount dewpoint transmitter
RHCM-10T-(*)-(**)-(***)	1627.50	Wall mount dewpoint/temperature transmitter
RHCM-20-(*)-(**)	1286.25	Duct mount dewpoint transmitter
RHCM-30-(*)-(**)	1307.25	Pipe mount dewpoint transmitter
TX4-100	35.00	4 conductor shielded transmitter cable, 30 m (100')
CAL-3-HU [†]	125.00	NIST-traceable calibration
PSR-24S	60.00	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	60.00	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	60.00	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
PSU-93	40.00	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal

Comes complete with operator's manual.

* Insert power code from power supply options chart (1, 2, 3 or 4).

** Insert output code for dewpoint range from the output options chart (PT100, 100F, 50C or 140F)

*** Insert second output code for ambient temperature output from the output options chart (PT100, 100F, 50C or 140F).

Ordering Examples: RHCM-10T-1-50C-50C, dewpoint/temperature transmitter with 24 Vdc power, a dew point output of 4 to 20 mA (0 to 50°C) and an ambient temperature output of 4 to 20 mA = 0 to 50°C with CAL-3-HU, NIST-traceable calibration, \$1627.50 + 157.50 + 1570.50 + 125 = \$2067.50.

RHCM-10-1-PT100, dewpoint/temperature transmitter with 24 Vdc power, a dew point output of 100 Ω RTD, \$1417.50.

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