

Rotronic Humidity Transmitters

Model Selection Guide

Instructions

- Select the desired Key Number. The arrow to the right marks the selections available.
- Make one selection each from Key Number, Tables I through VII.
- A complete Model Number must have the designated number of digits in each table.
- A dot denotes unrestricted availability, a letter restricted availability.

Key Numbers
PCD- - - - - I - - - - - II - - - - - III - - - - - IV - - - - - V - - - - -
VI - - - - - VII - - - - -

Spec Sheet: 200 Series Humidity and Humidity Temperature Transmitters

KEY NUMBER	Selection	Availability	Weeks
Humidity Transmitter - Wall Mount (10-35 VDC)	PCD-H205W	↓	3
Humidity Transmitter - Duct Mount (10-35 VDC)	PCD-H205D	↓	
Humidity Transmitter - Remote Probe (10-35 VDC)	PCD-H205R*	↓	

TABLE I

Wiring	NEMA4 2 Cable Grips	1	•	•	•	
Connections	NEMA4 Poly Carb Case, 1/2" Conduit	2	•	•	•	
and	NEMA4 AL Case, 1/2" Conduit	3	•	•	•	
Case	NEMA4 Poly Carb Case w/ Connectors (not available on 115 VAC units)	4	•	•	•	

TABLE II

Sensor Protection	Foam Filter in S.S. Housing MF15CSS	1	•	•	•	
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TABLE III

Probe Size	Standard Probe 100 x 15mm	0	•	•	•	See Notes 1,2
	Standard Probe 250 x 15mm	0	•	•	•	

TABLE IV

Output	4-20mA DC	1	•	•	•	
Signal	0-5 VDC	2	•	•	•	
	0-1 VDC	3	•	•	•	
	0-20 mA DC	4	•	•	•	

* See Note 5, Page OP-8A for temperature limits on remote probe.

Effective Date: October 1, 1998

		Availability			Weeks	
		HT205 _	<div>↓ ↓ ↓</div>			
		Selection	W	D		R
TABLE V						
No Selection		0	•	•	•	
L.C. Digital Display (%RH) Mounted on Case Cover		1	•	•	•	

TABLE VI						
Power	24 VAC	1	•	•	•	
Supply	115 VAC, 5° 60 Hz	2	•	•	•	
	10 to 35 VDC	4	•	•	•	

TABLE VII						
Measuring						
Range						
Selection	0-100% RH	1	•	•	•	

Notes on Page OP-8A.

NOTE 1: All probes are constructed of PPS - Polyethylene Sulfide.

The standard cable length on all remote probes is 2 meters. Longer cable lengths are not available - except for the HT420R.

Model HT420R is supplied with 10 ft. of cable for the remote probe. However, probes are not interchangeable and must always be used with the matching transmitter. Cable length above 10 ft. is priced at \$2.80/ft. Maximum cable length is 330 ft. The HT420R unit is the only remote probe unit that can be disconnected from the transmitter. The cable on the HT420R has a LEMO connector on the probe end, and a 7-pin TUCHEL connector on the transmitter end.

NOTE 2: Probe Options:
Optional probe lengths are limited to H205, HT205, HT225, HT255, and HT260.
Lengths are listed below.

250 x 25mm
400 x 25mm
500 x 25mm
750 x 25mm

NOTE 3: Special Temperature Range

Practically any temperature range is available within the following limits:

HT205	<i>min:</i>	15° F	<i>max:</i>	175° F	- must include	32° F
	<i>min:</i>	-10° C	<i>max:</i>	80° C	- must include	0° C
HT225	<i>min:</i>	-5° F	<i>max:</i>	212° F	- must include	32° F
	<i>min:</i>	-20° C	<i>max:</i>	100° C	- must include	0° C
HT255	<i>min:</i>	-5° F	<i>max:</i>	320° F	- must include	32° F
	<i>min:</i>	-20° C	<i>max:</i>	160° C	- must include	0° C
HT260	<i>min:</i>	-5° F	<i>max:</i>	390° F	- must include	32° F
	<i>min:</i>	-20° C	<i>max:</i>	200° C	- must include	0° C
HT420R	<i>min:</i>	-5° F	<i>max:</i>	265° F	- must include	32° F
	<i>min:</i>	-20° C	<i>max:</i>	130° C	- must include	0° C

The maximum temperature of the electronics is 20 to 122° F (-5° F to 50° C)

NOTE 4: The standard sensor protection is now a foam filter enclosed in stainless steel housing.
MF15 CSS

NOTE 5: With the exception of the HT420R, remote probes cannot be separated or disconnected from the transmitter.

Operating temperature limits (continuous) for remote probes are:

HT205	15 to 175° F (-10 to 80° C)
HT225	-5 to 212° F (-20 to 100° C)
HT255	-5 to 320° F (-20 to 160° C)
HT260	-5 to 320° F (-20 to 160° C)
HT420	-5 to 260° F (-20 to 125° C)

The above limits are also valid for the probe cable. The temperature limits at the electronics remain the same as specified on the data sheets.

Case Size:	Series 2XX Transmitters	
	NEMA4 Polycarbonate	6.29" x 4.72" x 3.54" D
	NEMA4 Aluminum	8.66" x 4.72" x 3.14" D
	HT420 Transmitter	
	NEMA4 Polycarbonate	7.87" x 4.72" x 2.95" D
	NEMA4 Aluminum	10.23" x 6.29" x 3.54 D
