

HP-C2A-01-DM

**Humidity & Temperature
Sensor Probe**



Humidity & Temperature Sensor Probe

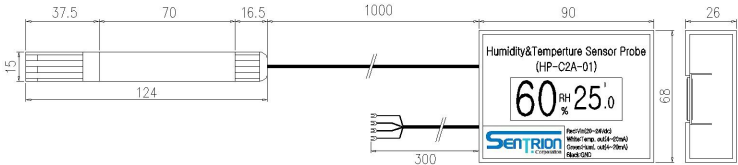
1. HP-C2A-xx Product Summary

The HP-C2X-xx is a humidity & temperature sensor Probe.

HP	:	C	2	A	:	DM
①		②	③	④		⑤

①	Humidity Sensor Probe
②	Using Cell Unit : Capacitance / Resistance/ IC Type
③	Function : 1- Only Humidity / 2-With Temperature
④	Out Put : Frequency : DC Voltage / AC Current / RS 485 / RS 232
⑤	Device Mart

2.Configuration



Part No.	PIPE Size(L)	Connector	Out Put
HP-C2A	10mm * 174mm	1. Red : Vin 2. Green : Humidity 3.White :Temperature 4. Black : GND	4mA to 20mA

3. Elctrical Characteristics

Characteristics	HP-C2A-DM
Supply Voltage	20~24Vdc
Sensing Element	Capacitance Type Sensor Element
Operating Humidity Range	0 ~ 100%RH
Operating Temperature Range	-40℃ ~ 85℃
Accuracy Humidity (at 25℃ / 60%RH)	at Rh60% <±3.5%RH
Accuracy Temperature (at 25℃ / 60%RH)	at 25℃ ±0.5℃
Stability (Hum &Temp)	±5%RH & ±2℃ / Year
Response Time	Typical 10sec (Without Filter)
Storage Temperature Range	-30℃ ~ 85℃

RH Measured Vs Output Reading Table

Relative Humidity(%Rh)	Output (mA)	Temperature(°C)	Output (mA)
0%	4	-40	4
5%	4.8	-35	4.5
10%	5.6	-30	5
15%	6.4	-25	5.5
20%	7.2	-20	6
25%	8	-15	6.5
30%	8.8	-10	7
35%	9.6	-5	7.5
40%	10.4	0	8
45%	11.2	5	8.5
50%	12	10	9
55%	12.8	15	9.5
60%	13.6	20	10
65%	14.4	25	10.5
70%	15.2	30	11
75%	16	35	11.5
80%	16.8	40	12
85%	17.6	45	12.5
90%	18.4	50	13
95%	19.2	55	13.5
100%	20	60	14
		65	14.5
		70	15
		75	15.5
		80	16
		85	16.5
		90	17
		95	17.5
		100	18
		105	18.5
		110	19
		115	19.5
		120	20