

## The MCS-HUMD Specifications & Description

### Physical Characteristics

Temperature Sensor .....	Same as used for the MCS-T100
Humidity Operating Range .....	0-100% RH
Humidity Accuracy .....	±2% RH, 0-100% RH @ 25°C, non-condensing
Humidity Stability .....	±1% RH typical at 50% RH in 5 years
Humidity Output Voltage .....	0.8 to 3.9vdc
Repeatability .....	±0.5% RH
Input Voltage .....	5vdc & 12vdc
Operating Temperature .....	-40°F to +185°F (-40°C to 85°C)
Storage Temperature .....	-60°F to +230°F (-51°C to 110°C)
Packaging Dimensions	
Width .....	2.00"
Length .....	2.57"
Height .....	1.50"



Part # MCS-HUMD

### Physical Description

Two extremely reliable sensors packaged in a very durable aesthetic package. Because of the sensor accuracy there is complete interchangeability with no hardware calibration required. Through the use of the sensor offset calibration system in the MCS micro controller, the humidity sensor can be maintained at ±2% when changing units.

### Options

**-OVR** .....Add Override Switch

The sensor outputs a linear signal and is a low power device (200µA typical @ 5vdc.) Because of its interchangeability, quality and reliability it is used in commercial, industrial, military and aerospace applications.

### Product Specifications

RH (%)	OUT (vdc)
1	0.831
2	0.862
3	0.892
4	0.923
5	0.954
6	0.985
7	1.015
8	1.046
9	1.077
10	1.108
11	1.138
12	1.169
13	1.200
14	1.231
15	1.261
16	1.292
17	1.323
18	1.354
19	1.384
20	1.415

RH (%)	OUT (vdc)
21	1.446
22	1.477
23	1.507
24	1.538
25	1.569
26	1.600
27	1.630
28	1.661
29	1.692
30	1.723
31	1.753
32	1.784
33	1.815
34	1.846
35	1.876
36	1.907
37	1.938
38	1.969
39	1.999
40	2.030

RH (%)	OUT (vdc)
41	2.061
42	2.092
43	2.122
44	2.153
45	2.184
46	2.215
47	2.245
48	2.276
49	2.307
50	2.338
51	2.368
52	2.399
53	2.430
54	2.461
55	2.491
56	2.522
57	2.553
58	2.584
59	2.614
60	2.645

RH (%)	OUT (vdc)
61	2.676
62	2.707
63	2.737
64	2.768
65	2.799
66	2.830
67	2.860
68	2.891
69	2.922
70	2.953
71	2.983
72	3.014
73	3.045
74	3.076
75	3.106
76	3.137
77	3.168
78	3.199
79	3.229
80	3.260

RH (%)	OUT (vdc)
81	3.291
82	3.322
83	3.352
84	3.383
85	3.414
86	3.445
87	3.475
88	3.506
89	3.537
90	3.568
91	3.598
92	3.629
93	3.660
94	3.691
95	3.721
96	3.752
97	3.783
98	3.814
99	3.844
100	3.875