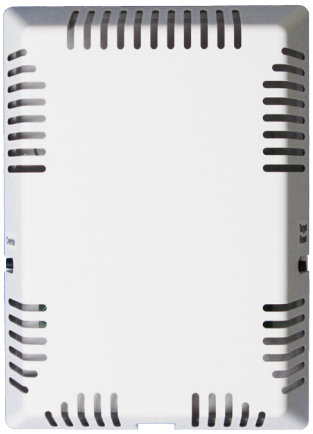
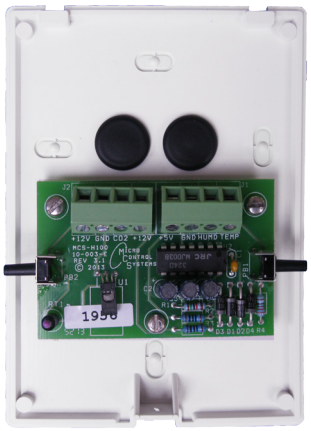
MCS-HUMD-II
Description & Specifications





Part # **MCS-HUMD-II-OVR-TR**

Pictured with Override & Target Reset Options Included)

-TR Pressing the Reset button for 2 sec decreases the target & pressing it for 6 sec increases the Target. Targets are restored to original set points at Midnight. (Only for MicroMag)

Specifications

Std Temperature Range	+32º to +158ºF (0° to +70°C)
Std Temperature Accuracy	±0.36º F (±0.2°C)
Ext Temperature Range	-40º to +248º F (-40° to 120°C)
Ext Temperature Accuracy	±1.5ºF (±0.8°C)
Resistance Range	2 Meg to 286 ohms
Humidity Operating Range	0-100% RH
Humidity Accuracy	±3.5% , 0-100% RH @ 25°C, nc
Humidity Stability	±1% at 50% RH over 5 years
Humidity Output Voltage	0.8 to 3.9vdc
Repeatability	±0.5% RH
Input Voltage	5vdc
Sensor Resistance	100,000 ohms @ 77ºF (25°C)
Operating Temperature	-40° to +185°F (-40° to 85°C)
Storage Temperature	-60° to +230°F (-51° to 110°C)
Packaging Dimensions	4.30”W × 6.50”L × 2.25”H

Options

-OVR Pressing the Override button for 2 sec results in the system going from unoccupied to occupied mode for the time that was setup in the override set point.

Description

The Temperature Humidity zone mounted sensor is supplied in an attractive package which can be mounted on standard USA or Overseas electrical boxes. The package includes rubber wire grommets that eliminate any draft influence on the sensors. Both the temperature and humidity sensors are the MCS highly reliable sensors with accuracy, durability and extremely fast response time.

The large resistance range allows the use of over 1000’ of cable with no noticeable effect. The table below provides a cross reference between °F/°C, OHMS, and VOLTS DC at the sensor input pin (S1) on the MCS controller.

Because of the sensors accuracy there is complete interchangeability with no hardware calibration required.

The humidity 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.

RH to VDC Chart

RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)	RH (%)	OUT (vdc)
1	0.831	**11**	1.138	**21**	1.446	**31**	1.753	**41**	2.061	**51**	2.368	**61**	2.676	**71**	2.983	**81**	3.291	**91**	3.598
2	0.862	**12**	1.169	**22**	1.477	**32**	1.784	**42**	2.092	**52**	2.399	**62**	2.707	**72**	3.014	**82**	3.322	**92**	3.629
3	0.892	**13**	1.200	**23**	1.507	**33**	1.815	**43**	2.122	**53**	2.430	**63**	2.737	**73**	3.045	**83**	3.352	**93**	3.660
4	0.923	**14**	1.231	**24**	1.538	**34**	1.846	**44**	2.153	**54**	2.461	**64**	2.768	**74**	3.076	**84**	3.383	**94**	3.691
5	0.954	**15**	1.261	**25**	1.569	**35**	1.876	**45**	2.184	**55**	2.491	**65**	2.799	**75**	3.106	**85**	3.414	**95**	3.721
6	0.985	**16**	1.292	**26**	1.600	**36**	1.907	**46**	2.215	**56**	2.522	**66**	2.830	**76**	3.137	**86**	3.445	**96**	3.752
7	1.015	**17**	1.323	**27**	1.630	**37**	1.938	**47**	2.245	**57**	2.553	**67**	2.860	**77**	3.168	**87**	3.475	**97**	3.783
8	1.046	**18**	1.354	**28**	1.661	**38**	1.969	**48**	2.276	**58**	2.584	**68**	2.891	**78**	3.199	**88**	3.506	**98**	3.814
9	1.077	**19**	1.384	**29**	1.692	**39**	1.999	**49**	2.307	**59**	2.614	**69**	2.922	**79**	3.229	**89**	3.537	**99**	3.844
10	1.108	**20**	1.415	**30**	1.723	**40**	2.030	**50**	2.338	**60**	2.645	**70**	2.953	**80**	3.260	**90**	3.568	**100**	3.875

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