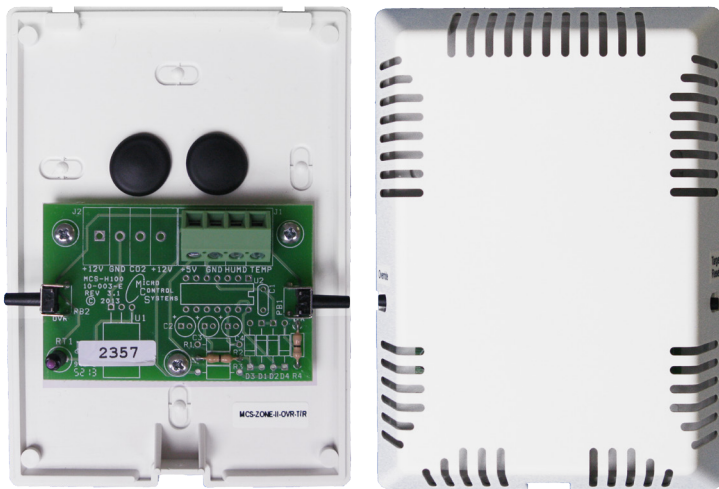




# MCS-ZONE-II

## Description & Specifications



Part # **MCS-ZONE-II-OVR-TR**  
(Pictured with Override & Reset Options Included)

### Description

An extremely reliable sensor packaged in a very durable aesthetic package. The sensor is potted with a thermally conductive RTV Cure Silicon Adhesive to guarantee durability and response, its high accuracy allows for interchangeability in the field.

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.

The **MCS-ZONE** also fits into a standard junction box.

### Specifications

- Standard Temperature Range ..... +32°F to +158°F  
(0°C to +70°C)
- Standard Temperature Accuracy . ±0.36° F (±0.2°C)
- Extended Temperature Range..... -40°F to +248° F  
(-40°C to 120°C)
- Extended Temperature Accuracy. ±1.5°F (±0.8°C)
- Resistance Range ..... 2 Meg to 286 ohms
- Input Voltage..... 5vdc
- Sensor Resistance..... 100,000 ohms @ 77°F (25°C)
- 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 ..... 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.
- 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)

Temperature to Resistance to VDC Chart

Temp (°F / °C)	Resist (ohms)	S1 (vdc)	Temp (°F / °C)	Resist (ohms)	S1 (vdc)	Temp (°F / °C)	Resist (ohms)	S1 (vdc)	Temp (°F / °C)	Resist (ohms)	S1 (vdc)	Temp (°F / °C)	Resist (ohms)	S1 (vdc)
-40/-40	4,015,500	0.121	32/0	351,020	1.109	95/35	63,480	3.058	158/70	15,500	4.329	208/97.7	5,981	4.718
-35/-37.2	3,324,096	0.146	35/1.6	320,976	1.188	100/37.7	56,200	3.201	160/71.1	14,881	4.352	210/98.8	5,773	4.727
-30/-34.4	2,760,524	0.175	38/3.3	293,758	1.270	104/40	51,050	3.310	165/73.8	13,456	4.407	212/100	5,573	4.736
-25/-31.6	2,299,670	0.208	40/4.4	277,040	1.326	105/40.5	49,846	3.337	167/75	12,930	4.428	215/101.6	5,289	4.749
-20/-28.9	1,921,640	0.247	45/7.2	239,686	1.472	110/43.3	44,287	3.465	170/76.6	12,185	4.457	218/103.3	5,020	4.761
-15/-26.1	1,610,592	0.292	50/10	207,850	1.624	113/45	41,290	3.539	175/79.4	11,052	4.502	220/104.4	4,849	4.769
-10/-23.3	1,353,866	0.344	55/12.7	180,647	1.782	115/46.1	39,420	3.586	180/82.2	10,033	4.544	223/106.1	4,605	4.780
-5/-20.6	1,141,345	0.403	58/14.4	166,243	1.878	120/48.8	35,149	3.370	183/83.8	9,474	4.567	225/107.2	4,449	4.787
0 /-17.7	964,963	0.470	60/15.5	157,353	1.943	125/51.6	31,399	3.805	185/85	9,121	4.582	227/108.3	4,299	4.794
5/-15.0	818,070	0.545	65/18.3	137,363	2.106	130/54.4	28,093	3.903	190/87.7	8,303	4.617	230/110	4,085	4.804
10/-12.2	695,433	0.629	70/21.1	120,169	2.271	135/57.2	25,173	3.994	195/90.5	7,567	4.648	233/111.6	3,886	4.813
15 /-9.4	592,755	0.722	75/23.9	105,347	2.435	140/60	22,590	4.079	198/92.2	7,162	4.666	235/112.7	3,760	4.819
20/-6.6	506,560	0.824	80/26.7	92,541	2.597	145/62.8	20,309	4.156	200/93.3	6,906	4.677	240/115.5	3,463	4.833
25/-3.8	434,007	0.936	85/29.4	81,454	2.756	150/65.5	18,284	4.227	203/95	6,541	4.693	245/118.3	3,191	4.845
30/-1.1	372,778	1.058	90/32.2	71,838	2.910	155/68.3	16,484	4.292	205/96.1	6,310	4.703	248/120	3,040	4.852