

## TB-WALL 10K Ohm NTC Type II Wall Temperature Sensors

### SPECIFICATION DATA

### PRODUCT OVERVIEW



Honeywell 10K ohm NTC Type II remote wall sensors are for use with the TB7200, TB7300, and TB7600 Series communicating thermostats and other devices requiring a 10K ohm NTC Type II sensor. These robust sensors provide accurate and stable temperature readings using a 10K ohm NTC thermistor element.

The TB-WALL sensors can also be used for temperature averaging applications. Two or three TB wall sensors can be used and are quickly configured with the onboard dip switches. Temperature averaging with the usual 4, 9, 16, 25, etc. sensors can also be done with the TB wall sensors. See table below for specific model numbers:

Table 1. TB Sensor Models.

Model	Description	Application
TB-WALL-1014	Room sensor	<ul style="list-style-type: none"> <li>Remote room sensing</li> <li>3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations</li> </ul>
TB-WALLOVR-1014	Room sensor with temporary override key and occupancy LED	<ul style="list-style-type: none"> <li>Remote room sensing with override key and occupancy LED</li> <li>3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations</li> </ul>

### Sensor Temperature Curve

Table 2. Temperature vs resistance chart for 10K ohm NTC Type II thermistor.  
( $R_{25^{\circ}\text{C}} = 10\text{K}\pm 3\%$  -  $B_{25/85^{\circ}\text{C}} = 3975\text{K}\pm 1.5\%$ )

°C	°F	kohms	°C	°F	kohms	°C	°F	kohms	°C	°F	kohms	°C	°F	kohms
-20	-4	94.5149	-10	14	54.1988	0	32	32.1910	10	50	19.7390	20	68	12.4601
-19	-2	89.2521	-9	16	51.3692	1	34	30.6120	11	52	18.8277	21	70	11.9177
-18	0	84.3147	-8	18	48.7042	2	36	29.1167	12	54	17.9636	22	72	11.4018
-17	1	79.6808	-7	19	46.1933	3	37	27.7088	13	55	17.1440	23	73	10.9112
-16	3	75.3299	-6	21	43.8268	4	39	26.3744	14	57	16.3665	24	75	10.4443
-15	5	71.2430	-5	23	41.5956	5	41	25.1119	15	59	15.6286	25	77	10.0000
-14	7	67.4028	-4	25	39.4912	6	43	23.9172	16	61	14.9280	26	79	9.5754
-13	9	63.7928	-3	27	37.5056	7	45	22.7861	17	63	14.2629	27	81	9.1711
-12	10	60.3980	-2	28	35.6316	8	46	21.7151	18	64	13.6310	28	82	8.7860
-11	12	57.2044	-1	30	33.8622	9	48	20.7004	19	66	13.0307	29	84	8.4190



## SPECIFICATIONS

**Sensor type:** 10K ohm NTC Type II thermistor

**Maximum wire length:** 5,000 feet [1,525 m] for 24 GA wire and up

**Operating conditions:** 32 °F to 122 °F (0 °C to 50 °C)  
0% to 95% R.H. non-condensing

**Storage conditions:** -22 °F to 122 °F (-30 °C to 50 °C)  
0% to 95% R.H. non-condensing

**Accuracy:** +/- 1.2° F (0.7° C)

**Dimensions:** 4.94" (125 mm) high  
3.38" (86 mm) wide  
1.13" (29 mm) thick  
See Fig. 1.

**Approximate shipping weight:** 0.34 LBS (155 grams)

**Enclosure plastic type** ABS - FRI (WT1337V) UV stabilized

## ⚠ WARNING

### Important Notice

All sensors are for use as operating controls only and are not safety devices. These instruments have undergone rigorous tests and verifications prior to shipment to ensure proper and reliable operation in the field. Whenever a control failure could lead to personal injury and/or loss of property, it becomes the responsibility of the user/installer/electrical system designer to incorporate safety devices (such as relays, flow switch, thermal protections, etc.) and/or alarm system to protect the entire system against such catastrophic failures. Tampering of the devices or miss application of the device will void warranty.

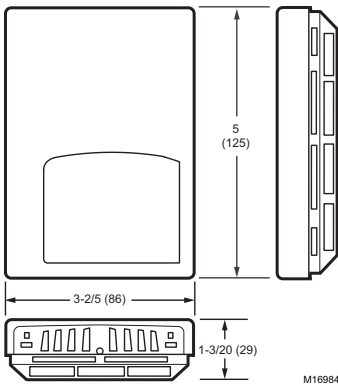


Fig. 1. Dimensions in in (mm).

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