



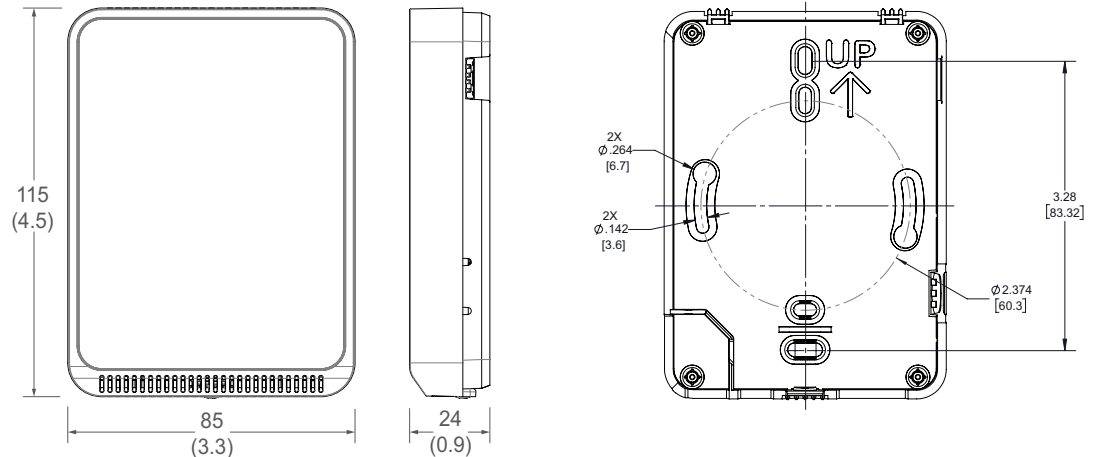
Wall Mounted Temperature Sensors

! WARNING



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Dimensions



Functions

The TW2X Series sensor measures the temperature in a room and provides resistive output to a controller.

Installation

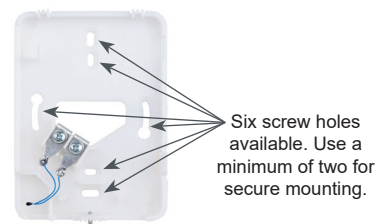
1. Position the sensor vertically on the wall 4.5 ft. (1.35 m) above the floor with the 'UP' arrow facing upward. Locate away from windows, vents and other sources of draft. If possible, do not mount on an external wall, as this may cause inaccurate temperature readings.



2. Pull 18 or 22 AWG two-conductor cable(s) through the hole in the backplate.



3. Mount the backplate onto the wall using the screws provided.



Installation (cont.)

4. Connect the wires to the thermistor terminals. Do not over-tighten the screws.



Note: For a more secure connection of the wires to the thermistor terminals, spade terminals (not supplied) can be used.

5. With sensor base fully installed, align top of cover to mounting tabs on top of sensor base. Swing cover downward until it latches at the bottom.



6. Install locking screw to secure cover in closed position.



Thermistor Table

Class	Pt RTD	THERMISTOR				
Type	1000 Ohm	10k Type 2	10k Type 3	10k/Shunt	20k	1.8k
Accuracy	±0.3°C	±1.0°C	±0.2°C	Consult	Consult	±0.3°C
	0.00385 curve	-50/150°C	0/70°C	Factory	Factory	@25°C
Temp. Response*	PTC	NTC	NTC	NTC	NTC	NTC

*PTC: Positive Temperature Coefficient *NTC: Negative Temperature Coefficient

STANDARD RTD AND THERMISTOR VALUES (Ohms Ω)

°C	°F	1000 Ohm	10k Type 2	10k Type 3	10k/Shunt	20k NTC	1.8k
-50	-58	803.06	692,700	454,910	-	1,267,600	63,880
-40	-40	842.71	344,700	245,089	-	643,800	35,680
-30	-22	882.22	180,100	137,307	-	342,000	20,720
-20	-4	921.60	98,320	79,729	-	189,080	12,460
-10	14	960.86	55,790	47,843	-	108,380	7,733
0	32	1,000.00	32,770	29,588	7,480	64,160	4,940
10	50	1,039.03	19,930	18,813	6,541	39,440	3,240
20	68	1,077.94	12,500	12,272	5,530	24,920	2,177
25	77	1,097.35	10,000	10,000	5,025	20,000	1,800
30	86	1,116.73	8,055	8,195	4,534	16,144	1,496
40	104	1,155.41	5,323	5,593	3,627	10,696	1,049
50	122	1,193.97	3,599	3,894	2,854	7,234	750
60	140	1,232.42	2,486	2,763	-	4,992	545
70	158	1,270.75	1,753	1,994	-	3,512	403
80	176	1,308.97	1,258	1,462	-	2,516	303
90	194	1,347.07	919	1,088	-	1,833	230
100	212	1,385.06	682	821	-	1,356	178
110	230	1,422.93	513	628	-	1,016	139
120	248	1,460.68	392	486	-	770	110
130	266	1,498.32	303	380	-	591	87
Sensor Codes		C	D	H	K	M	N