



**Retail Energy
Control Systems**



Temperature Sensors

RECS temperature sensors have a proven design that offers an excellent moisture seal between all of the components and deters water from entering. They are constructed for applications in harsh environments where moisture and wide temperature swings can destroy other temperature sensors. With a sturdy, double encapsulated construction, these sensors can handle high humidity and condensing environments. The sensors are commonly used to read air temperature in refrigeration and HVAC applications and come with a standard 22 AWG, 20 ft lead wire.

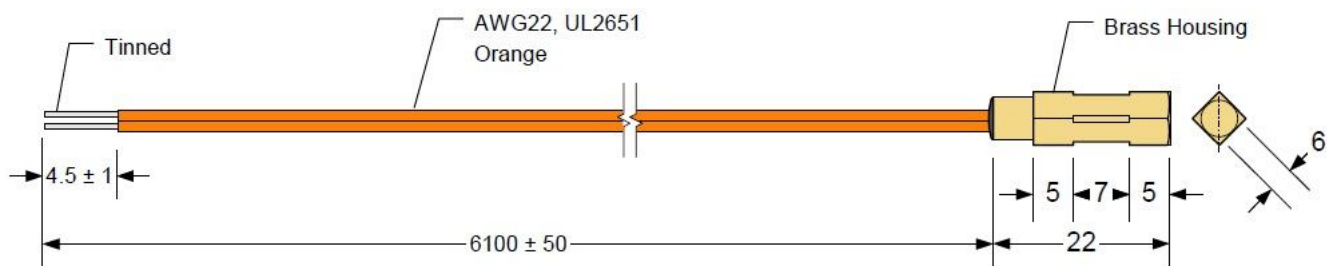
The sensors have an accuracy of $\pm 0.5^{\circ}\text{C}$. This accuracy makes it well suited for precision measurements in narrow range applications like refrigeration control. Its rugged construction has been tested to

Specifications

Temperature Range: -40°F to 212°F (-40°C to 100°C)
 Tolerance @ 77°F: $\pm 1\%$
 Wire: AWG22, Teflon Insulated. UL2651 Orange, 20FT Long
 Probe Housing: Brass, 0.24" X 0.87" Epoxy Sealed
 RECS PT#: **601-1020**
 Description: NTC Defrost Termination Temperature Sensor 20FT Orange

Tested To 10,000 Freeze/Thaw Cycles.

° F	° C	Ω
-40	-40.0	336,050
-30	-34.4	233,918
-20	-28.9	165,048
-10	-23.3	117,960
0	-17.8	85,340
10	-12.2	62,460
20	-6.7	46,220
30	-1.1	34,562
40	4.4	26,104
50	10.0	19,903
60	15.5	15,313
70	21.1	11,884
80	26.7	9,298
90	32.2	7,333
100	37.8	5,826
110	43.3	4,663
120	48.9	3,757
130	54.4	3,047
140	60.0	2,487
150	65.6	2,042



UNITS: [mm]