



AC112-01 Hydronic Temperature Sensor

PRODUCT DATA



INTRODUCTION

The AQ112-01 hydronic temperature sensor is designed for use as a floor/slab sensor with Resideo’s T6 Pro Hydronic thermostat or T10+ thermostat. It is also compatible with other Resideo thermostats that use a floor/slab sensor or AQ2000 series panels as a supply or return pipe sensor.

TECHNICAL SPECIFICATIONS

Temperature range: -22°F to 221°F (-30°C to 105°C)

Output signal: resistive

Sensing device: thermistor (10 kΩ @ 77°F or 25°C)

Cable length: 10 ft (3 m)

Table 1. Resistance at Temperatures.

°C	Ω	°F	°C	Ω	°F
120	388	248	20	12 493	68
115	444	239	15	15 714	59
110	510	230	10	19 903	50
105	587	221	5	25 395	41
100	678	212	0	32 651	32
95	787	203	-5	42 317	23
90	916	194	-10	55 304	14
85	1 070	185	-15	72 911	5
80	1 256	176	-20	97 007	-4
75	1 480	167	-25	130 308	-13
70	1 752	158	-30	176 805	-22
65	2 082	149	-35	242 430	-31
60	2 487	140	-40	336 103	-40
55	2 985	131	-45	471 401	-49
50	3 601	122	-50	669 262	-58
45	4 367	113	-55	962 410	-67
40	5 325	104	-60	1 402 728	-76
35	6 530	95	-65	2 073 705	-85
30	8 056	86	-70	3 111 810	-94
25	10 000	77			

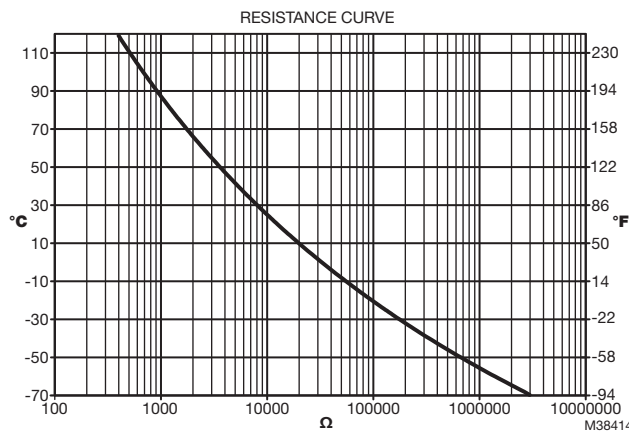


Fig. 1. Resistance curve.

INSTALLATION

The maximum allowable distance between the sensor and the thermostat or control is 500 feet (150 m).

Wire the sensor to the thermostat/controller (no polarity). If splicing is necessary, use 18 AWG cable. Twisted pair or shielded cable is not required unless used in high EMF environments.

NOTE: Do not submerge in liquid.



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Resideo Technologies, Inc.
1985 Douglas Drive North, Golden Valley, MN 55422
1-800-468-1502
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