



ACI 20K THERMISTOR TABLES

Dave Bohlmann, 12 June 2018

OVERVIEW

These two tables can be used with ACI A/20K thermistors that match what they call their Curve 20 resistance-to-temperature table. Honeywell uses these same thermistors in some (maybe all) of their 20K sensors.

These tables have limits of -40 to 240 F.

INPUT CONFIGURATION

Use one of the two tables described below, and configure your controller input to be 10 Kohms. Set multiplier to 1 and offset to 0. Use the proper table for the desired units:

- `aci-20k_Fahrenheit.csv` **for Fahrenheit**
- `aci-20k_Celsius.csv` **for Celsius**

RESISTANCES

You should double check that this table is the correct one for the 20 Kohm ACI sensor you are using. If your sensor is marked as the “Curve”, then the device tables should be correct. Also, the four key resistances below can be checked with a table in the datasheet for your sensor. These should match within 200 ohms for all four:

- 0 F = 139,390 ohms
- 32 F = 70,160 ohms
- 77 F = 20,000 ohms
- 100 F = 11,245 ohms