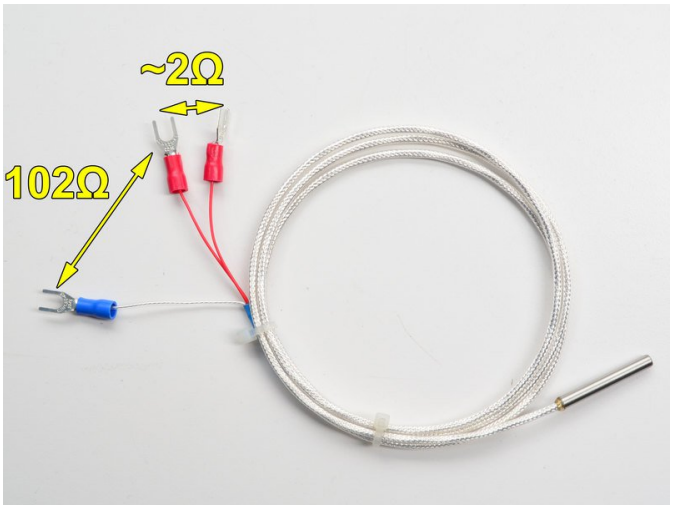
Max31865 RTD to Digital Converter

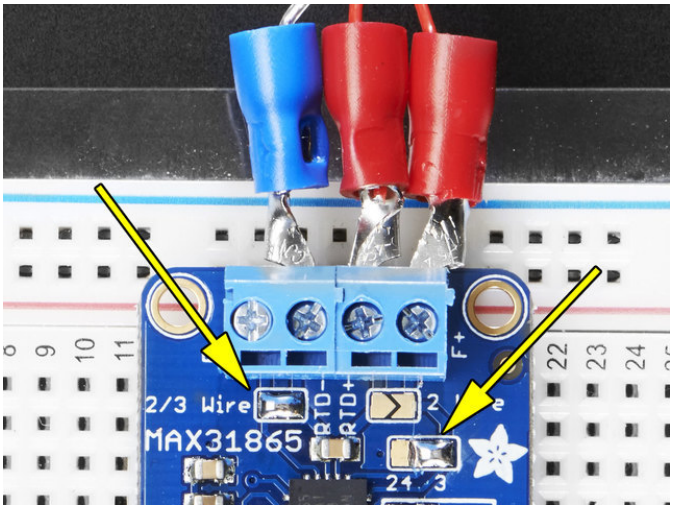
The MAX31865 is an easy-to-use resistance-to-digital converter optimized for platinum resistance temperature detectors (RTDs). An external resistor sets the sensitivity for the RTD being used and a precision delta-sigma ADC converts the ratio of the RTD resistance to the reference resistance into digital form. The MAX31865's inputs are protected against overvoltage faults as large as Q45V. Programmable detection of RTD and cable open and short conditions is included.

RTD - 3 Wire



3 Wire Sensors

Connect the three wires to the three right-most contacts. Use a multimeter to determine which wires connect together directly (2 ohms or so between them) and which connect through the RTD. Chances are the wires that connect together are the same color. The two wires that are connected together should go in the right-most blocks (labeled F+ and RTD+). It doesn't matter which of the *matched* pair is on the outside or inside. The third wire that is on the other side of the RTD connects to the left (marked F- or RTD-). It doesn't matter which slot it's in!



You will have to cut the thin trace in between the 2-way jumper on the right side of the board, and then solder closed the blob on the right side.

Then next to the terminal block on the left, solder closed that jumper as well. Alternatively you can put a piece of wire into the terminal blocks to 'short' them

Reference

Reference	URL
Datasheet	https://datasheets.maximintegrated.com/en/ds/MAX31865.pdf
Adafruit Tutorial	https://learn.adafruit.com/adafruit-max31865-rtd-pt100-amplifier
Wiring	https://learn.adafruit.com/adafruit-max31865-rtd-pt100-amplifier/rtd-wiring-config