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RTD's (resistance temperature detectors) are a common type of sensor used for detecting the temperature of bearings, motors, gear boxes, and processes. They are accurate, easy to use, and simple to understand. However, many people using and specifying RTD's do not realize that 2-wire RTD's can be used in place of 4-wire RTD's with very little difference in accuracy. Normally a 2-wire RTD will lose accuracy due to the resistance in the cable, which can be thousands of feet long. The 4-wire RTD uses the additional 2 wires to compensate for the wire resistance. However, by "pulling" 4 wires to a 2-wire RTD you can achieve the same thing.

