

Low Cost Inside Box Temperature Sensor Application



ST132-0600
Thermocouple/millivolt input
2 wire Transmitter

If you need a simple way to monitor temperatures inside an enclosure, Acromag's [ST132-0600 temperature transmitter](#) is compact, inexpensive and provides a loop powered 4–20mA output. The tiny, puckstyle unit is only 1.75 inches in diameter and easily scaled for –40 to 80°C input. Just mount the transmitter inside your panel and jumper short the input terminals to measure ambient temperature without a sensor. Then wire the 4–20mA output to your PLC, DCS, Controller, or Recorder. You now have a low cost box temperature sensor with 4–20mA output proportional to –40 to 80°C inside the box. No thermocouple or other sensor is necessary. This approach uses the internal cold-junction compensation sensor within the ST132 transmitter as the ambient temperature sensor. The ST132 is highly accurate, stable, and best of all, low cost!