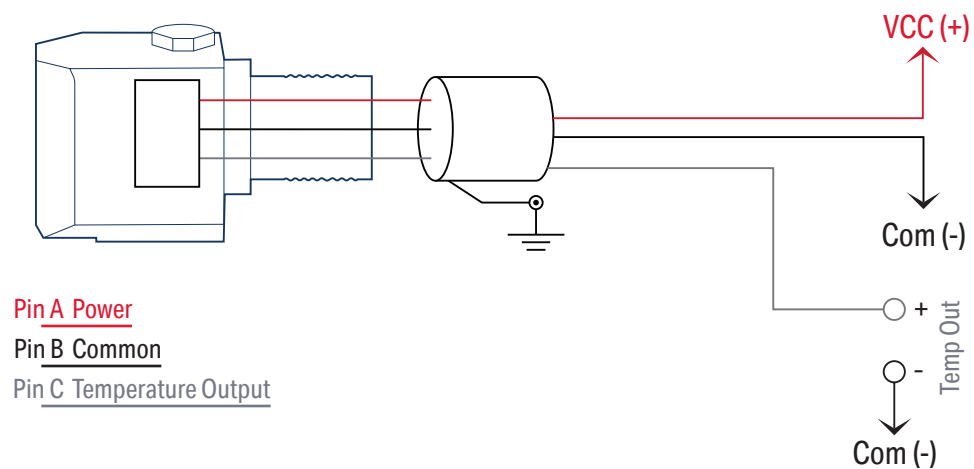




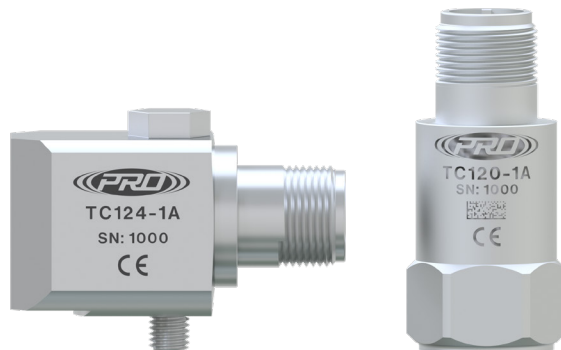
Temperature Sensors (Celsius)

TC120, TC124

Wiring Diagram



Applicable Sensors



Key Details

Tolerance = $\pm 4/-2$ °C (-40-125 °C)
Tolerance = ± 2 °C (0-70 °C)
Tolerance = ± 1 °C at 25 °C
Measurement Range = -40 °C to 121 °C

VCC = 3-30 Vdc

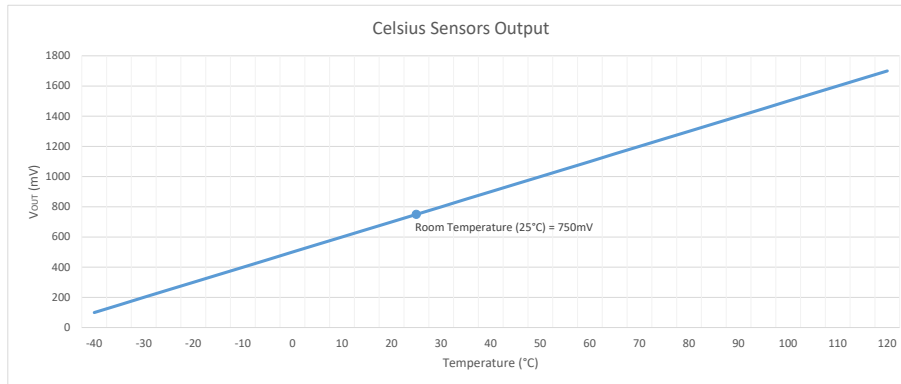
*Temp out is a voltage output referenced to COM (-)



Temperature Sensors (Celsius)

TC120, TC124

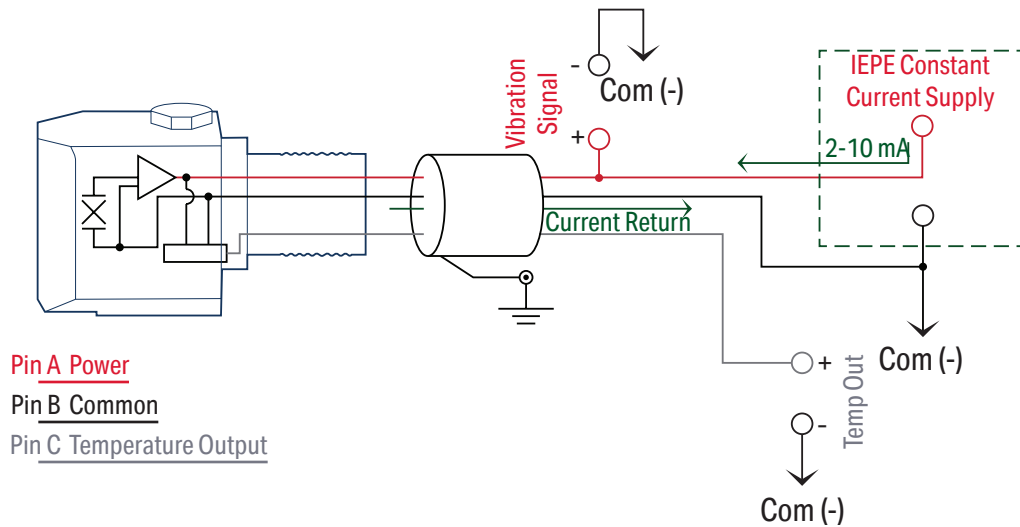
Temperature Output



Temperature Sensors (Celsius)

TA102, TA104, TA117, TA118, TA131, TA133, TA134, TA135, TA184

Wiring Diagram



Applicable Sensors





Temperature Sensors (Celsius)

TA102, TA104, TA117, TA118, TA131, TA133, TA134, TA135, TA184

Key Details

Tolerance = $\pm 3^\circ\text{C}$

Tolerance = $\pm 2^\circ\text{C}$ at 25°C

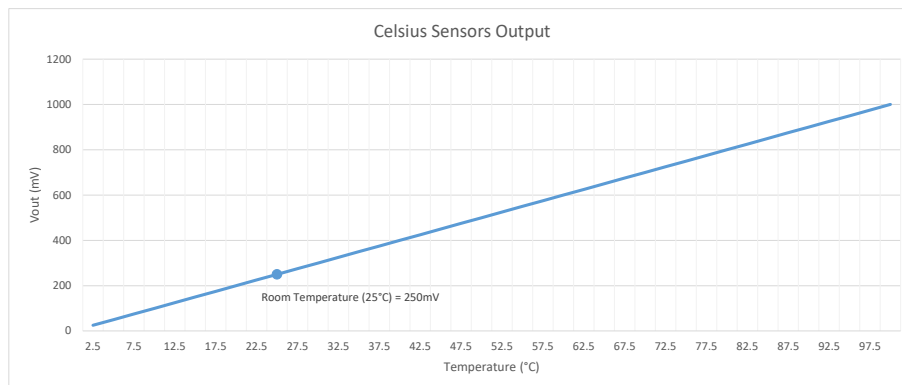
Measurement Range = 2.5°C to 100°C

*IEPE Open Circuit Voltage = 18-30 V_{DC}

*IEPE Constant Current = 2-10 mA

*Temp out is a voltage output referenced to COM (-)

Temperature Output

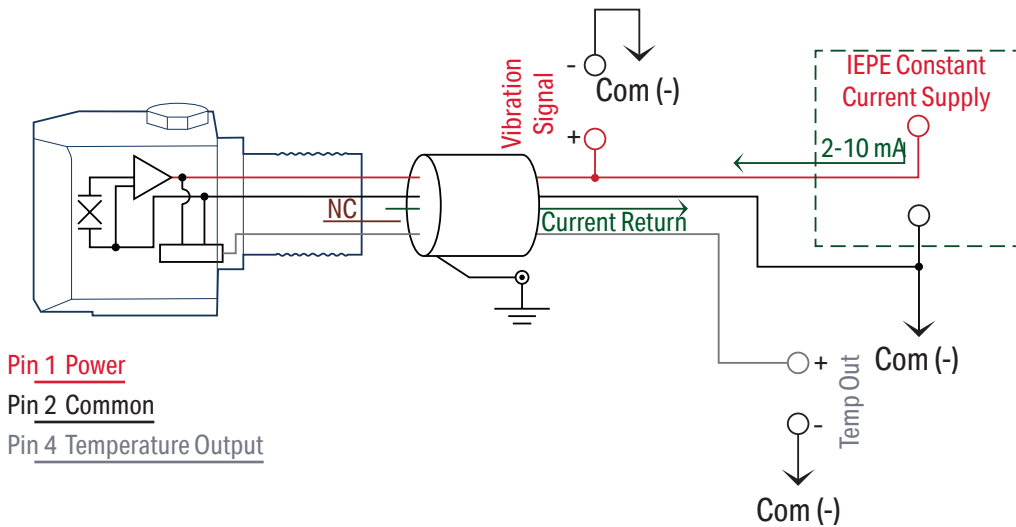




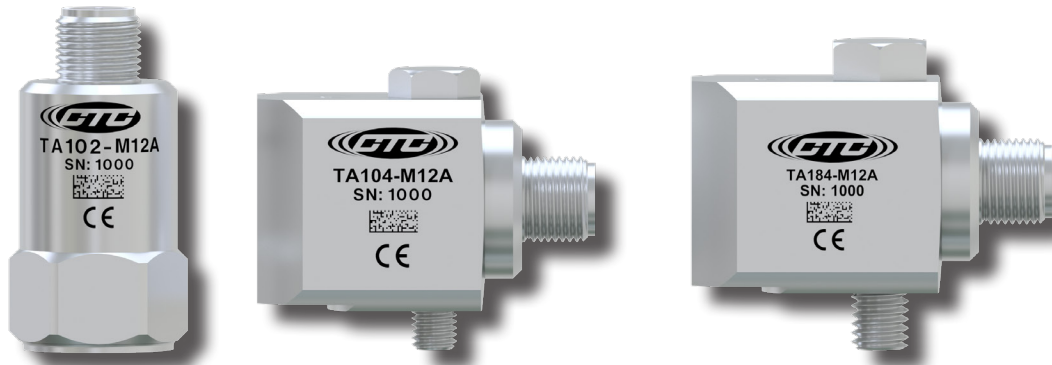
M12 Temperature Sensors (Celsius)

TA102, TA104, TA184

Wiring Diagram



Applicable Sensors



Key Details

Tolerance = $\pm 3^\circ\text{C}$
Tolerance = $\pm 2^\circ\text{C}$ at 25°C
Measurement Range = 2.5°C to 100°C

*IEPE Open Circuit Voltage = 18-30 V_{oc}

*IEPE Constant Current = 2-10 mA

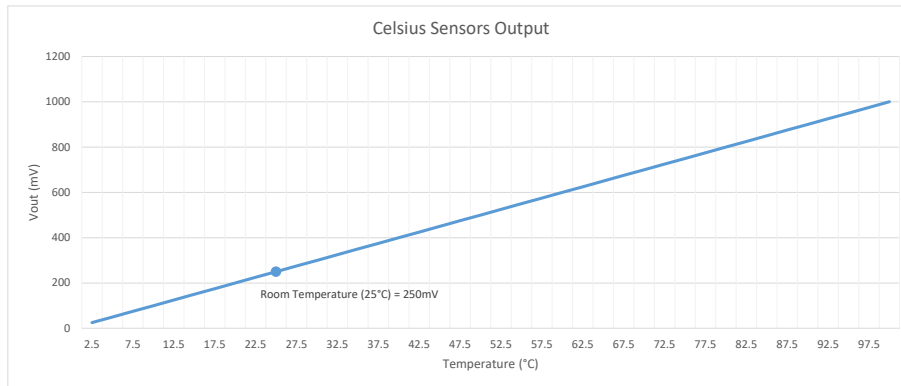
*Temp out is a voltage output referenced to COM (-)



M12 Temperature Sensors (Celsius)

TA102, TA104, TA184

Temperature Output

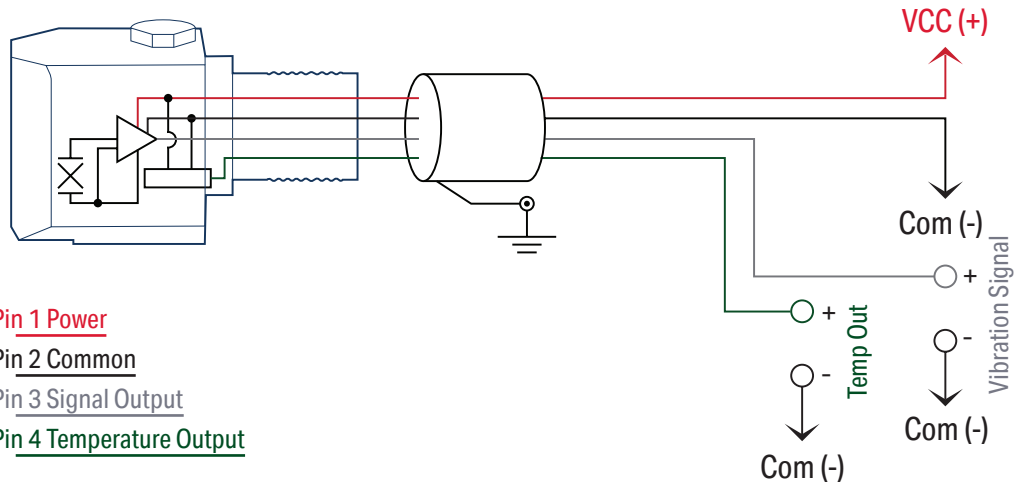




M12 Temperature Sensors (Celsius)

TA312, TA314

Wiring Diagram



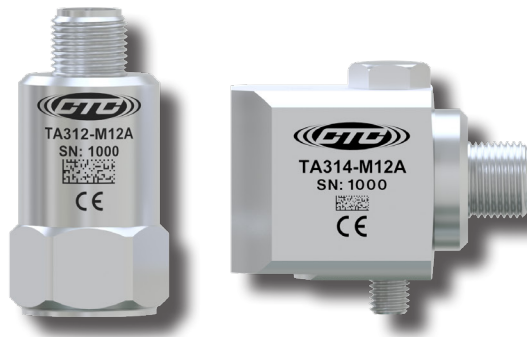
Pin 1 Power

Pin 2 Common

Pin 3 Signal Output

Pin 4 Temperature Output

Applicable Sensors



Key Details

Tolerance = $+4/-2$ °C (-40-125 °C)

Tolerance = ± 2 °C (0-70 °C)

Tolerance = ± 1 °C at 25 °C

Measurement Range = -40 °C to 121 °C

VCC = 3-5 Vdc

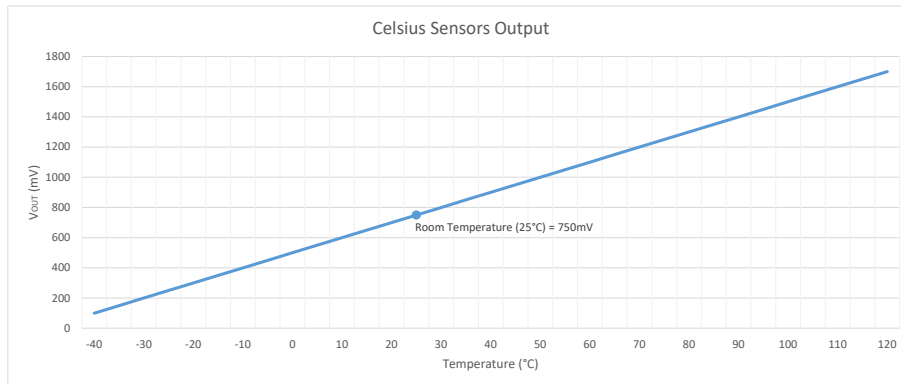
*Temp out is a voltage output referenced to COM (-)



M12 Temperature Sensors (Celsius)

TA312, TA314

Temperature Output

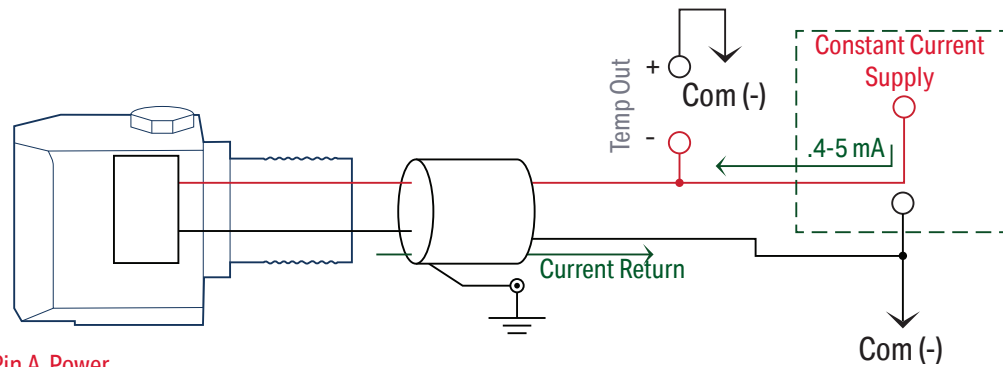




Temperature Sensors (Kelvin)

TK120, TK124

Wiring Diagram



Pin A Power

Pin B Common

Applicable Sensors



Key Details

Tolerance = ± 4 °C (typical); ± 9 MAX

Tolerance = ± 2 °C at 25 °C (typical); ± 6 MAX

Measurement Range = -40 °C to 100 °C (233.15 K to 373.15 K)

*Current supply can be IEPE, but must not exceed 5 mA

*Temp out is a voltage output referenced to COM (-)

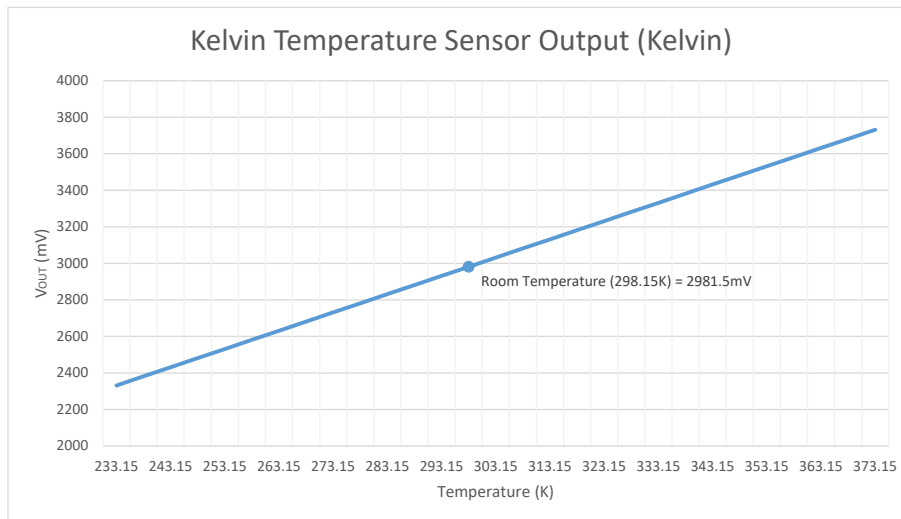
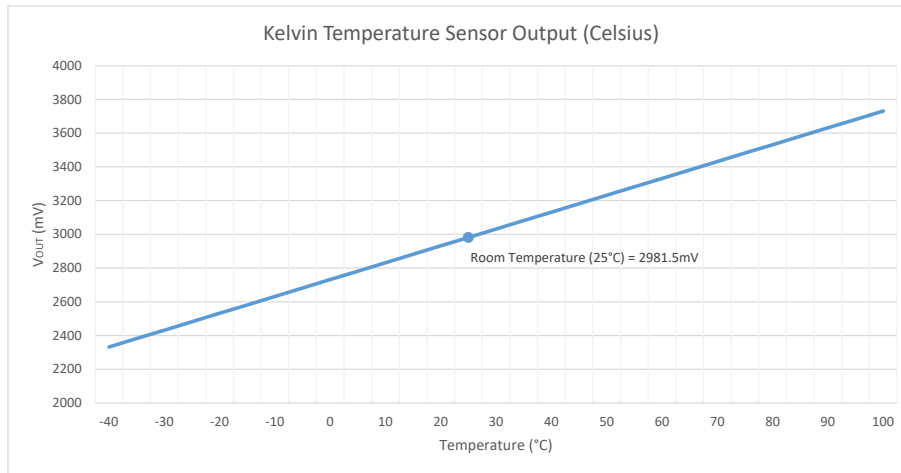
Note: Kelvin sensors are sensitive to self heating, so the lowest possible supply current should be used



Temperature Sensors (Kelvin)

TK120, TK124

Temperature Output

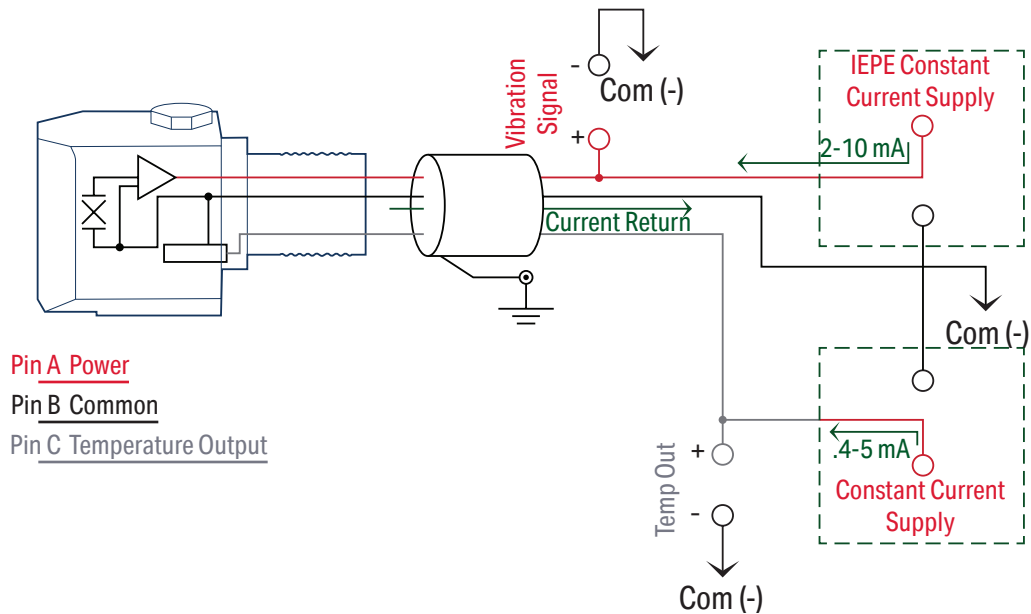




Temperature Sensors (Kelvin)

TA172, TA174, TA178

Wiring Diagram

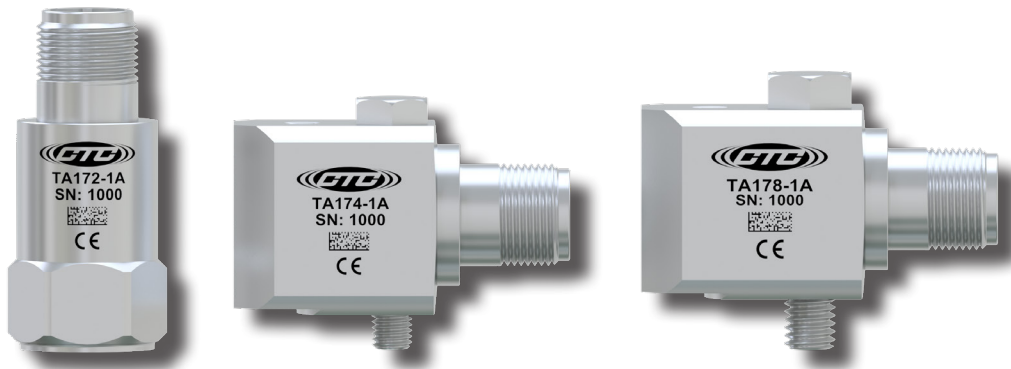


Pin A Power

Pin B Common

Pin C Temperature Output

Applicable Sensors



Key Details

Tolerance = ± 4 °C (typical); ± 9 MAX

Tolerance = ± 2 °C at 25 °C (typical); ± 6 MAX

Measurement Range = -40 °C to 100 °C (233.15 K to 373.15 K)

IEPE supply can be used for the temperature circuit, however it cannot exceed 5mA.

Note: Kelvin sensors are sensitive to self heating, so the lowest possible supply current should be used

*IEPE Open Circuit Voltage = 18-30 V_{bc}

*IEPE Constant Current = 2-10 mA

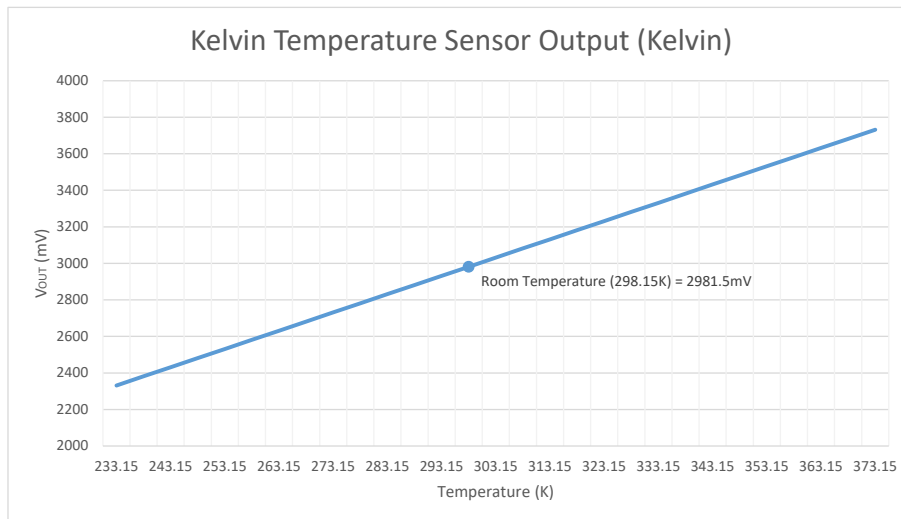
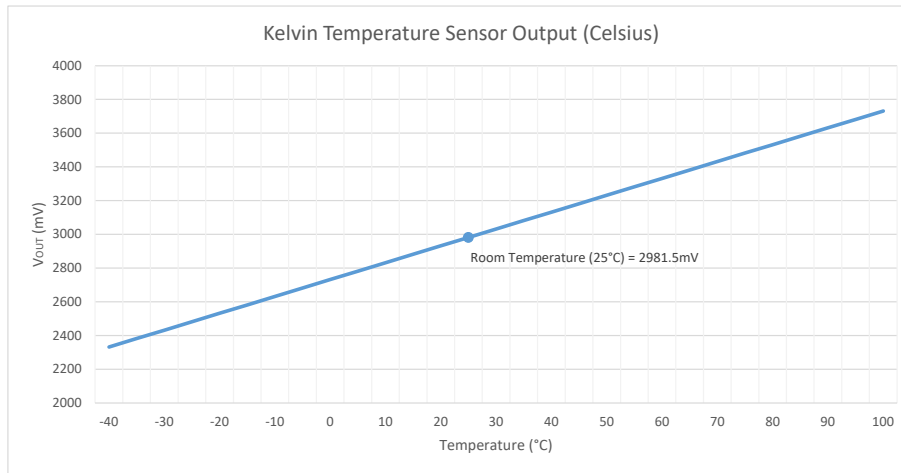
*Temp out is a voltage output referenced to COM (-)



Temperature Sensors (Kelvin)

TA172, TA174, TA178

Temperature Output

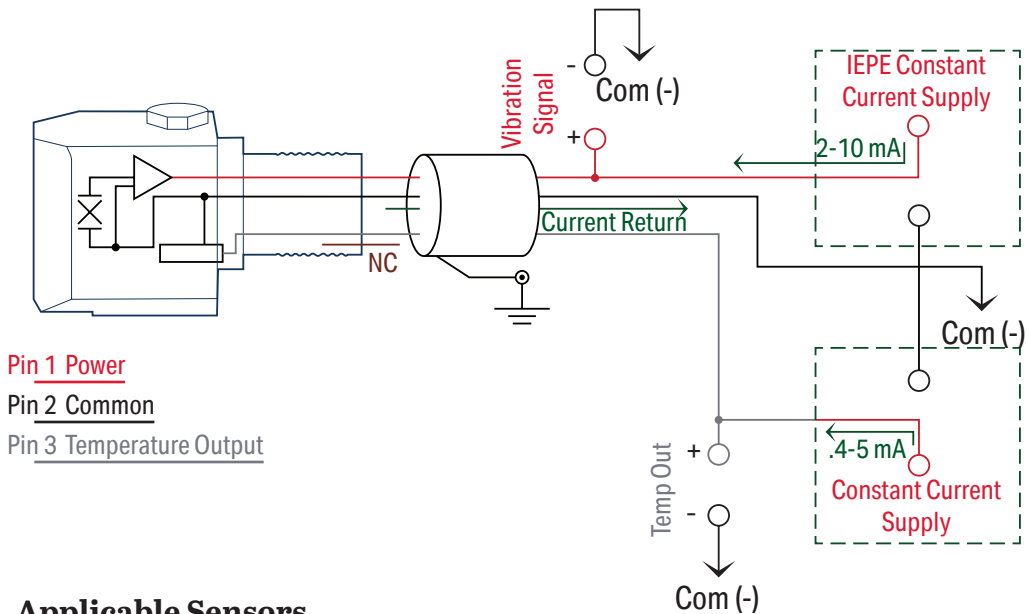




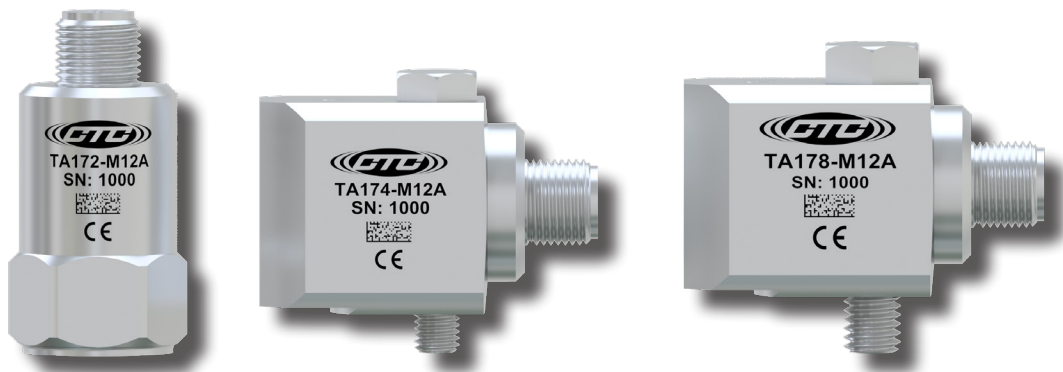
M12 Temperature Sensors (Kelvin)

TA172, TA174, TA178

Wiring Diagram



Applicable Sensors



Key Details

Tolerance = ± 4 °C (typical); ± 9 MAX
Tolerance = ± 2 °C @ 25 °C (typical); ± 6 MAX
Measurement Range = -40 °C to 100 °C (233.15 K to 373.15 K)

IEPE supply can be used for the temperature circuit, however it cannot exceed 5mA.

Note: Kelvin sensors are sensitive to self heating, so the lowest possible supply current should be used

*IEPE Constant Current = 2-10 mA

*IEPE Open Circuit Voltage = 18-30 V_{oc}

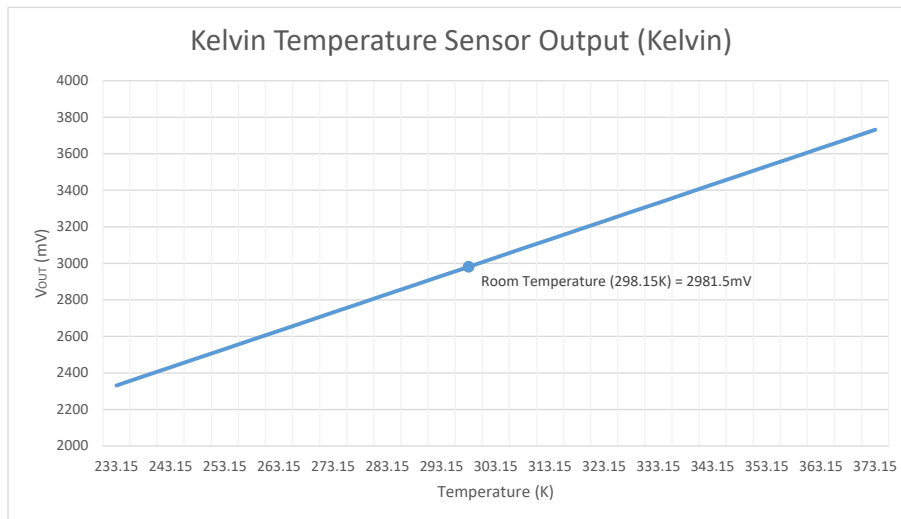
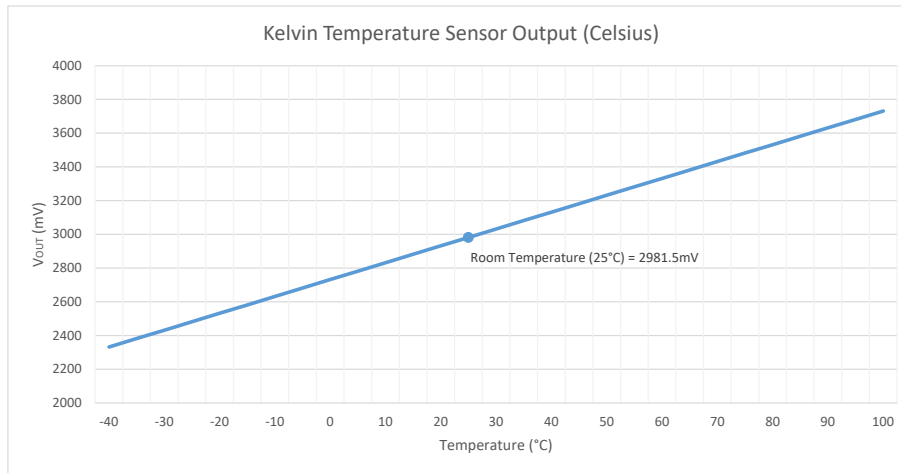
*Temp out is a voltage output referenced to COM (-)



M12 Temperature Sensors (Kelvin)

TA172, TA174, TA178

Temperature Output

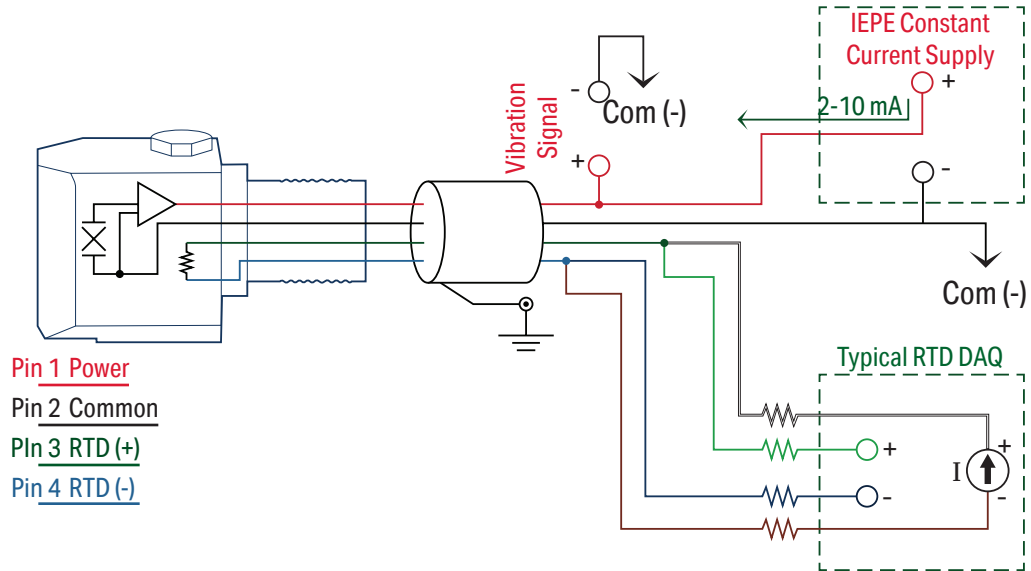


RTD Sensors

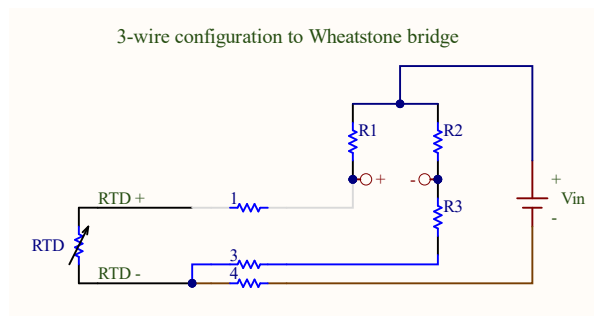
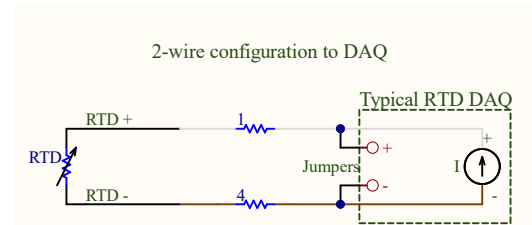
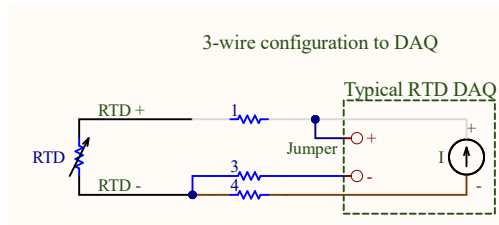
TR102, TR104, TR133, TR134

Wiring Diagram

Typical setup utilizing 4-wire configuration to DAQ



- Pin 1 Power
- Pin 2 Common
- Pin 3 RTD (+)
- Pin 4 RTD (-)

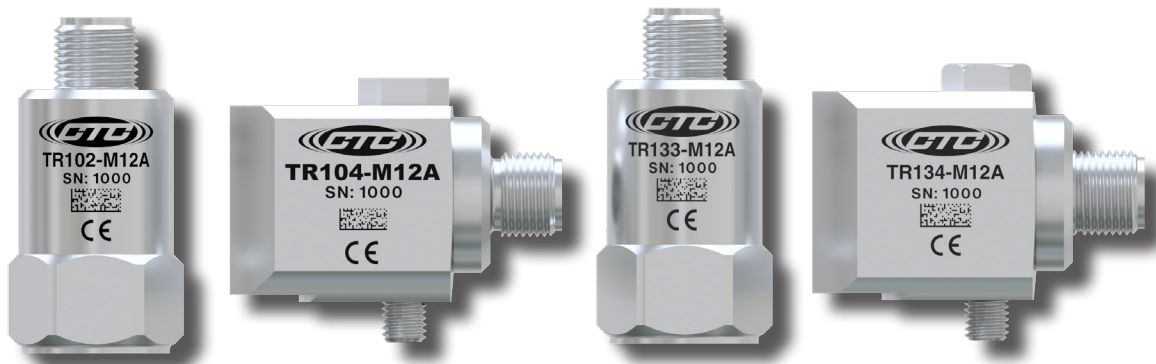




RTD Sensors

TR102, TR104, TR133, TR134

Applicable Sensors



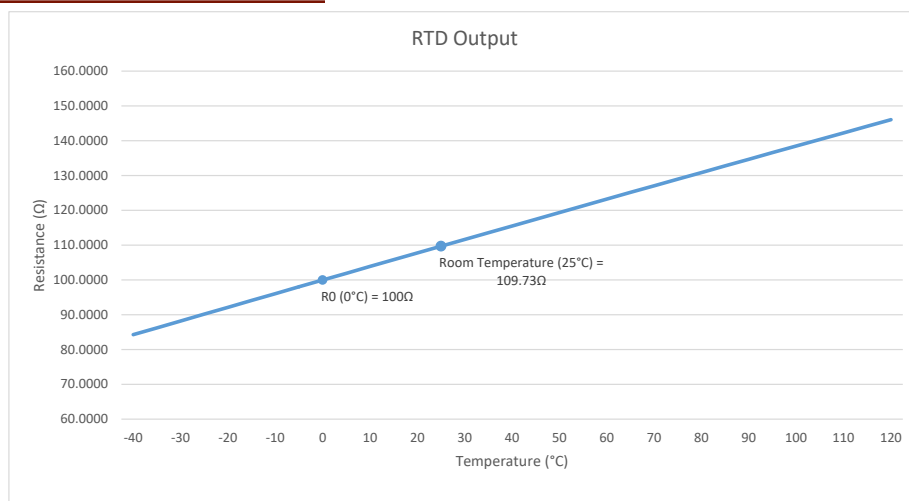
Key Details

$R_0 = R \text{ at } 0^\circ\text{C} = 100 \Omega$
 $R_0 \text{ tolerance} = \pm .2 \Omega$
Temp Tolerance = $\pm .5^\circ\text{C}$
(or .8% of temp, whichever is greater)

*IEPE Open Circuit Voltage = 18-30 V_{cc}

*IEPE Constant Current = 2-10 mA

Temperature Output

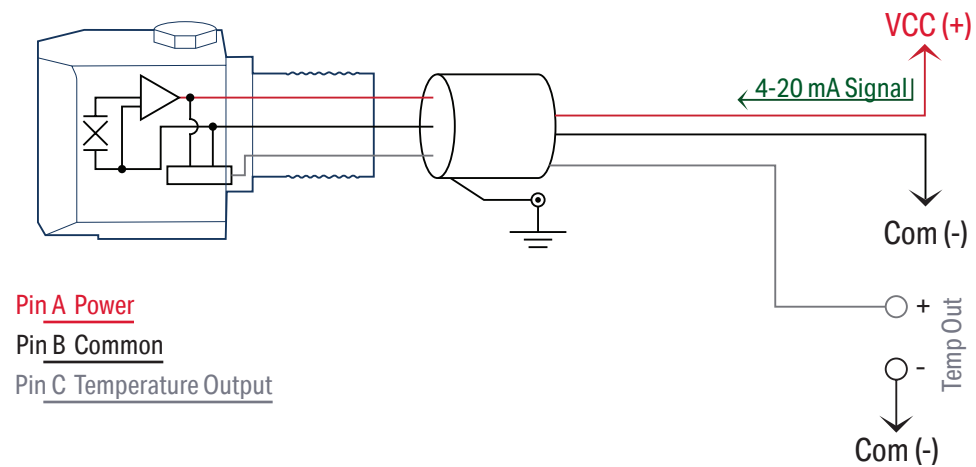




Loop Power Temperature Sensors

LP232, LP234, LP332, LP334

Wiring Diagram



Applicable Sensors



Key Details

Tolerance = $\pm 4/-2$ °C (-40-125 °C)
Tolerance = ± 2 °C (0-70 °C)
Tolerance = ± 1 °C at 25 °C
Measurement Range = -40 °C to 85 °C

VCC = 15-30 V_{DC}

*Temp out is a voltage output referenced to COM (-)



Loop Power Temperature Sensors

LP232, LP234, LP332, LP334

Temperature Output

