

4-20 MA OUTPUT, NON-ISOLATED

How to build a part number:

To order an Applied Sensor Technologies transmitter, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

TRANSMITTER TYPE	INPUT	RANGE	UNITS OF MEASURE

TRANSMITTER TYPE

TC2 – Non-isolated transmitter with thermocouple input and single 4-20 mA output for terminal head mounting

RTD2 – Non-isolated transmitter with RTD input and single 4-20 mA output for terminal head mounting

INPUT

J – J type thermocouple

K – K type thermocouple

E – E type thermocouple

T – T type thermocouple

R – R type thermocouple

S – S type thermocouple

B – B type thermocouple

Pt100 – 100-ohm platinum RTD (RTD2 only)

RANGE (specify minimum and maximum values, e.g., 0-100)*

– **Minimum Range Value** (temperature value that equals 4 mA)

– **Maximum Range Value** (temperature value that equals 20 mA)

UNITS OF MEASURE

Specify °F or °C

Specifications

Supply Voltage: 8-38 VDC, polarity protected

Maximum Load: $R_{max} = (V_{supply} - 8V) / 20 \text{ mA}$

Stability (both zero and span drift): RTD: 0.03% of span/°C (100°C span)

T/C: 0.04% of span/°C (25 mV span)

Linearity: RTD: better than +/- 0.05% of span

T/C: better than +/- 0.03% of span

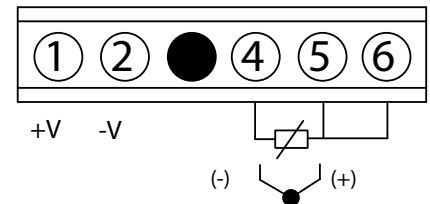
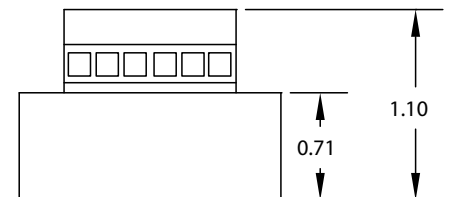
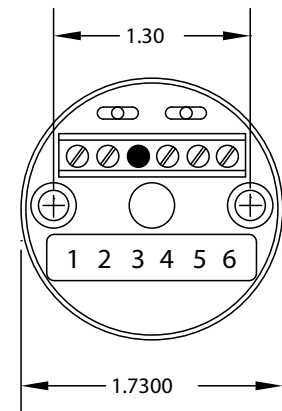
Ambient Temperature: -20 to + 70°C

Humidity: 0-95% RH, non-condensing

*Input span: RTD: 20°C min., 500°C max.

T/C: 10 mV min.

RTD2 AND TC2



Note: when used as an option in combination with a temperature sensor assembly, use option code **TR12** at end of assembly part #.