

4-20 MA/HART® OUTPUT, 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	OPTION

TRANSMITTER TYPE

UNI5-H – Isolated transmitter with single 4-20mA/HART® output for terminal head mounting

INPUT

J – J type thermocouple

K – K type thermocouple

E – E type thermocouple

T – T type thermocouple

Pt100 – 100-ohm platinum RTD

Pt250 – 250-ohm platinum RTD

Pt500 – 500-ohm platinum RTD

Pt1000 – 1000-ohm platinum RTD

R – R type thermocouple

S – S type thermocouple

B – B type thermocouple

Ni100 – 100-ohm nickel RTD

Ni500 – 500-ohm nickel RTD

Ni1000 – 1000-ohm nickel RTD

Cu10 – 10-ohm copper RTD

Cu100 – 100-ohm copper RTD

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

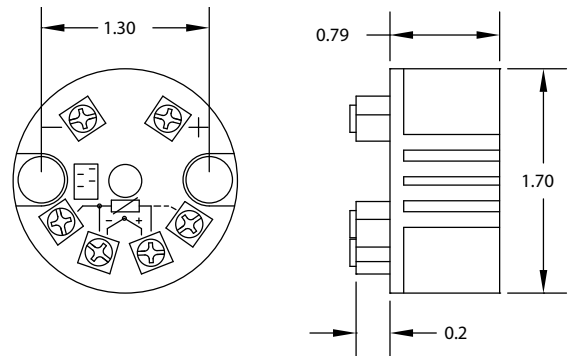
OPTION

DS01 – Downscale open circuit detection

Specifications

Input:	Thermocouple or 3-wire/4-wire RTD
Isolation (I/O):	500 VDC
Supply Voltage:	10-40 VDC, polarity protected
Output:	4-20mA or 20-4 mA
Digital Output:	HART® protocol
Sensor Lead Resistance:	RTD: 500 ohms max. T/C: 10,000 ohms max. Effect: 0.001 °C/ohm
Maximum Load:	$R_{max} = (V_{supply} - 10) / 20 \text{ mA}$
Stability:	Zero drift = 0.02 °C/°C Span drift = 0.01 °C/°C
Ambient Temperature:	-40 to + 85 °C
Start-Up Time	5 sec.
Warm-Up Time	5 min.
Housing:	Epoxy-coated zinc alloy
Open Circuit Detection:	Upscale standard

UNI5-H



*Available sensor ranges and limitations

Sensor Type	Min. Temp.	Max. Temp.	Min. Span
J T/C	-200°C	1200°C	50°C
K T/C	-270°C	1370°C	50°C
E T/C	-270°C	1000°C	50°C
T T/C	-270°C	400°C	50°C
R or S T/C	-60°C	1760°C	250°C
B T/C	0°C	1820°C	600°C
Pt100, Pt250, Pt500 and Pt1000 RTD	-200°C	850°C	25°C
Ni100, Ni, 500 and Ni1000 RTD	-60°C	250°C	25°C
Cu10 and Cu100 RTD	-200°C	250°C	25°C

Note: when used as an option in combination with a temperature sensor assembly, use option code **TR13** at end of assembly part #.