

## 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

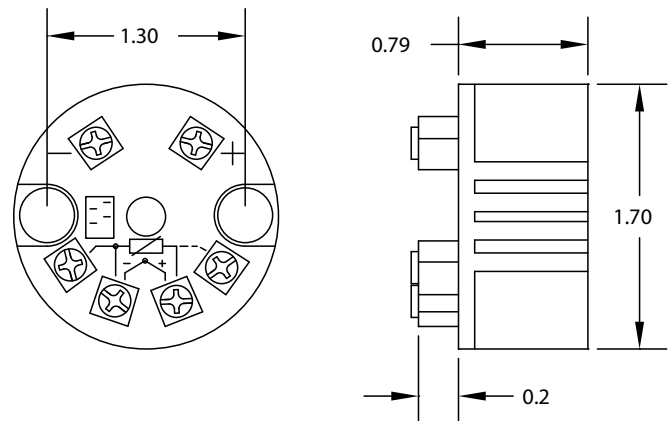
**DS01** – Downscale open circuit protection

\*See chart below for available sensor ranges and minimum spans

#### 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.
Maximum Load:	$R_{max} = (V_{supply} - 10) / 20 \text{ mA}$
Stability:	0.005%/°C (zero & span drift)
Ambient Temperature:	-40 to +85 °C
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
<b>J T/C</b>	-200°C	1200°C	50°C
<b>K T/C</b>	-270°C	1370°C	50°C
<b>E T/C</b>	-270°C	1000°C	50°C
<b>T T/C</b>	-270°C	400°C	50°C
<b>R or S T/C</b>	-60°C	1760°C	250°C
<b>B T/C</b>	0°C	1820°C	600°C
<b>Pt100, Pt250, Pt500 and Pt1000 RTD</b>	-200°C	850°C	25°C
<b>Ni100, Ni500 and Ni1000 RTD</b>	-60°C	250°C	25°C
<b>Cu10 and Cu100 RTD</b>	-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 #.