SHEATH WITH WELDED PROCESS CONNECTION AND ATEX-APPROVED TERMINAL HEAD

How to build a part number:

To order an Applied Sensor Technologies temperature sensor, 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!

SENSOR TYPE	ASSEMBLY STYLE	SHEATH DIAMETER	SHEATH MATERIAL	TEMPERATURE RANGE	SHEATH LENGTH	OPTIONS

SENSOR TYPE (See page 2-3b for optional elements)

RTP1 − Platinum; DIN 0.00385; 100 ohm +/− 0.12% @ 0°C; 3-wire construction
(For dual element, add prefix "D" - e.g., DRTP1)

ASSEMBLY STYLE

22 − **Sheath with cast aluminum head and 1/2" NPT welded stainless steel process connection**; head ATEX approved for EEx d IIC; IP66 to 68; screw cover with chain and gasketed o-ring; meets NEMA 4X; ceramic terminal block; 3/4" NPT conduit connection; internal and external ground screws (Note: For spring-loaded fitting, see Style 75 and add optional head). Note: Approval applies to terminal head only.

SHEATH DIAMETER (in inches) (see below for restrictions)

4 − 1/8 (0.125)
6 − 3/16 (0.188)
7 − 1/4 (0.250)
9 − 3/8 (0.375)

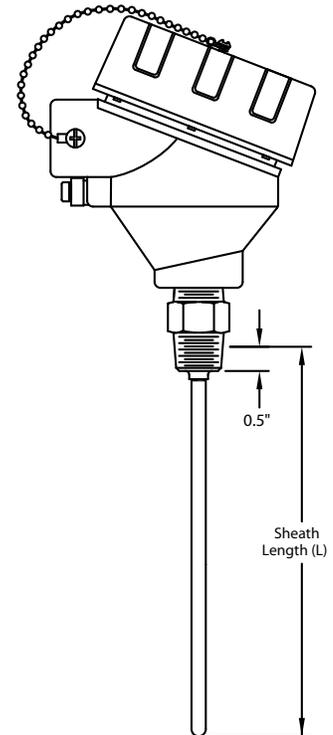**SHEATH MATERIAL**

3 − 316 stainless steel

TEMPERATURE RANGE - Minimum and maximum operating temperatures

1 − -45 to 260°C (-50 to 500°F)
2 − -45 to 482°C (-50 to 900°F)
3 − -45 to 788°C (-50 to 1450°F)
4 − -200 to 260°C (-328 to 500°F)

SHEATH LENGTH (for lengths greater than L=36", consult AST)

L# − (e.g., L6 = 6 inch sheath)

OPTIONS − see back page

0.5"

Sheath Length (L)

Smallest Diameter Sheath Available By Sensor Type and Temperature Range						
SINGLE						
Temp Range	RTP 1	RTP 1A	RTP 1AA	RTP 6	RTP 7	RTP 7A	RTP 7AA
1	1/8	1/8	1/8	1/8	3/16	3/16	3/16
2	3/16	3/16	3/16	3/16	3/16	3/16	3/16
3	3/16			3/16	3/16		
4	1/8			1/8	3/16		
DUAL						
Temp Range	DRTP 1	DRTP 1A	DRTP 1AA	DRTP 6	DRTP 7	DRTP 7A	DRTP 7AA
1	3/16	3/16	3/16	3/16			
2	1/4	1/4	1/4	3/16			
3	1/4			1/4			
4	3/16			3/16			

AVAILABLE OPTIONS and MODIFICATIONS

OPTIONAL ELEMENTS

RTDs are standardly platinum, 100-ohm, DIN-curve elements with a 0.00385 alpha.

Option Code	Accuracy (at 0°C)	Construction
RTP1 (std.)	±0.12%	3-wire
RTP1A	**±0.06%**	3-wire
RTP1AA	**±0.01%**	3-wire
RTP6	±0.12%	**2-wire**
RTP7	±0.12%	**4-wire**
RTP7A	**±0.06%**	**4-wire**
RTP7AA	**±0.01%**	**4-wire**

Notes:
1. For dual element, add prefix "D" (e.g., DRTP6)
2. Additional materials, curves and resistance values are available - see Capabilities brochure.

ASSEMBLY OPTIONS

Option Code	Description
TAG1	Stainless steel tag and wire
PC25	1/4" NPT process connection
PC75	3/4" NPT process connection
RB10	Replace terminal block with customer supplied part
RB11	Supply assembly with no terminal block inside head
CAL1	Calibration, NIST traceable calibration [specify point(s)]
CRT1	Certificate of conformance

TRANSMITTERS – For complete specs, see Transmitters section

TR11	4-20 mA, 2-wire transmitter, single input, isolated output; specify range and units of measure (e.g., 0-200°C)
TR12	4-20 mA, 2-wire transmitter, single input, non-isolated output; specify range and units of measure (e.g., 0-200°C) and terminal head with *.
TR13	HART®/ 4-20 mA, 2-wire transmitter, single input, isolated output; specify range and units of measure (e.g., 0-200°C) and terminal head with *.

UNION CONNECTOR (converts male connection to female)

Option Code	Description
UC20	Plated steel, 1/2" x 1/2" NPT, explosion-proof rating

Note: adding the union connector reduces the sensor's L length by 1.88" (see view). Adjust L dimension accordingly.

EXPLOSION-PROOF TERMINAL HEAD OPTIONS

Option Code	Process Connection	Conduit Connection
Same specifications as standard		
HD72	1/2"	1/2"

UC20 Option