

SHEATH WITH LEADWIRE

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	LEADWIRE LENGTH	OPTIONS

SENSOR TYPE (See page 2-10b for optional elements)

RTP1 – Platinum; DIN 0.00385; 100 ohm $\pm 0.12\%$ @ 0°C; 3-wire construction

(For dual element, add prefix "D"- e.g., DRTP1)

ASSEMBLY STYLE

20 – Sheath with leadwire; Teflon® insulated conductors; no jacket

28 – Sheath with Teflon® jacketed cable; Teflon® insulated conductors

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)

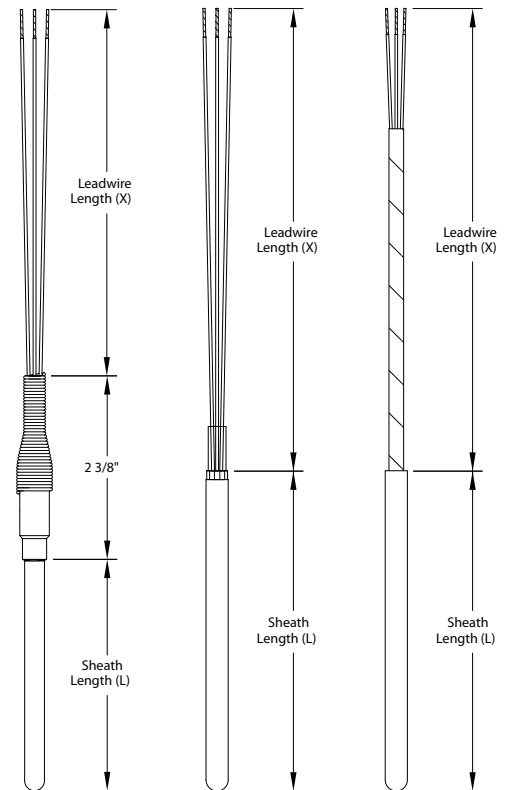
SHEATH LENGTH (for lengths greater than L=36", consult AST)

L# – (e.g., L6 = 6 inch sheath, L12.5 = 12.5 inch length)

LEADWIRE LENGTH

X# – (e.g., X72 = 72 inch length)

OPTIONS – see back page



Temperature Range 3 view
for Style 20 & 28

Style 20

Style 28

Temperature Range 2 & 4
view for Style 28

Smallest Diameter Sheath Available By Sensor Type and Temperature Range							
Style 20, 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		
Style 20, 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	1/4	1/4	1/4
2	1/4	1/4	1/4	3/16	3/8	3/8	3/8
3	1/4			1/4	1/4		
4	3/16			3/16	1/4		

Smallest Diameter Sheath Available By Sensor Type and Temperature Range							
Style 28, SINGLE ONLY							
Temp Range	RTP 1	RTP 1A	RTP 1AA	RTP 6	RTP 7	RTP 7A	RTP 7AA
1	1/8	1/8	1/8				
2	3/16	3/16	3/16				
3	3/16						
4	1/8						

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STYLES 20 & 28

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	
CAL1	NIST traceable calibration [specify point(s)]	
CRT1	Certificate of conformance	
B45-	45° bend in sheath (specify length from tip in inches e.g., B45-6 [minimum length = 3"])	
B90-	90° bend in sheath (specify length from tip in inches e.g., B90-6 [minimum length = 3"])	
WIRING CONNECTION OPTIONS		
Option Code	Description	
WC76	#6 spade terminals, plated copper	
WC70	#10 spade terminals, plated copper	
WC84	1/4" push-on insulated terminals, plated copper	
WC90	#10 ring terminals	
WC98	#8 ring terminals	
PLUGS AND JACKS (For 2 and 3 wire constructions only. Note: plug is designed to be attached to sensor assemblies. Jack options – for customer wiring – should only be specified if plug option is also included. Cable clamp is included for both plug and jack options.)		
PJ10	Standard plug, rated to 177°C (350°F)	
PJ20	Standard jack, rated to 177°C (350°F)	
For flexible stainless steel armor, see Style 03		

COMPRESSION FITTINGS (for diameters 4, 6, 7)			
Option Code	NPT	Material	Ferrule
CF10	1/8"	Stainless steel	Stainless steel
CF11	1/8"	Stainless steel	Teflon®
CF12	1/8"	Brass	Brass
CF20	1/4"	Stainless steel	Stainless steel
CF21	1/4"	Stainless steel	Teflon®
CF22	1/4"	Brass	Brass
CF30	1/2"	Stainless steel	Stainless steel
CF31	1/2"	Stainless steel	Teflon®
CF32	1/2"	Brass	Brass