

## **SHEATH WITH WELDED PROCESS MOUNTING**

### **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 2-15b for optional elements)

**RTP1** – Platinum; DIN 0.00385; 100 ohm  $+\/- 0.12\%$  @  $0^\circ\text{C}$ ; 3-wire construction

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

### **ASSEMBLY STYLE**

**23I – Sheath with single sided instrument mounting:** Teflon® insulated conductors; 1/2" NPT stainless steel connection with leadwire

**23P – Sheath with single sided process mounting:** Teflon® insulated conductors; 1/2" NPT stainless steel connection with leadwire

**24 – Sheath with double-sided mounting:** Teflon® insulated conductors; 1/2" NPT stainless steel connection

**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

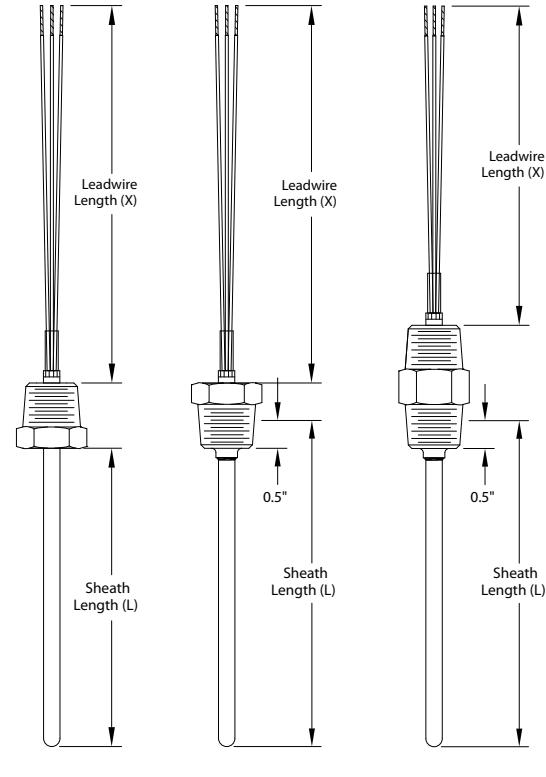
**TEMPERATURE RANGE** - Minimum and maximum operating temperatures

**1** – -45 to  $260^\circ\text{C}$  (-50 to  $500^\circ\text{F}$ )

**2** – -45 to  $482^\circ\text{C}$  (-50 to  $900^\circ\text{F}$ )

**3** – -45 to  $788^\circ\text{C}$  (-50 to  $1450^\circ\text{F}$ )

**4** – -200 to  $260^\circ\text{C}$  (-328 to  $500^\circ\text{F}$ )



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

**L#** – (e.g., L6 = 6 inch sheath)

### **LEADWIRE LENGTH**

**X#** – (e.g., X72 = 72 inch length)

**OPTIONS** – see back page

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	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		

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## STYLES 23I, 23P & 24

### 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	<b>±0.06%</b>	3-wire		
RTP1AA	<b>±0.01%</b>	3-wire		
RTP6	±0.12%	<b>2-wire</b>		
RTP7	±0.12%	<b>4-wire</b>		
RTP7A	<b>±0.06%</b>	<b>4-wire</b>		
RTP7AA	<b>±0.01%</b>	<b>4-wire</b>		
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)			
B90-	90° bend in sheath (specify length from tip in inches e.g., B90-6)			
<b>For spring-loaded design, see Style 75</b>				
<b>For terminal heads, see Styles 15 and 21</b>				
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			
<b>PLUGS AND JACKS</b> (Available on 23P only, 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)			

WELD PADS (Style 23I only)	
WP00	Horizontal pad/flat
WP10	1" nominal pipe size
WP15	1.5" nominal pipe size
WP20	2" nominal pipe size
WP25	2.5" nominal pipe size
WP30	3" nominal pipe size
WP35	3.5" nominal pipe size
WP40	4" nominal pipe size