

## **SHEATH WITH LEADWIRE AND PROTECTIVE TEFLON® SLEEVE**

### **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	TEFLON® SLEEVE	LEADWIRE LENGTH	OPTIONS

#### **SENSOR TYPE** (See page 2-18b 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**

**42 – Sheath with protective Teflon® sleeve**; Teflon® insulated leadwire extension

beyond Teflon® sleeve

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

**6** – 3/16 (0.188) Finished OD = 0.240

**7** – 1/4 (0.250) Finished OD = 0.300

#### **SHEATH MATERIAL**

**3** – 316 stainless steel

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

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

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

**L#** – (e.g., L6 = 6 inch sheath)

#### **TEFLON® SLEEVE**

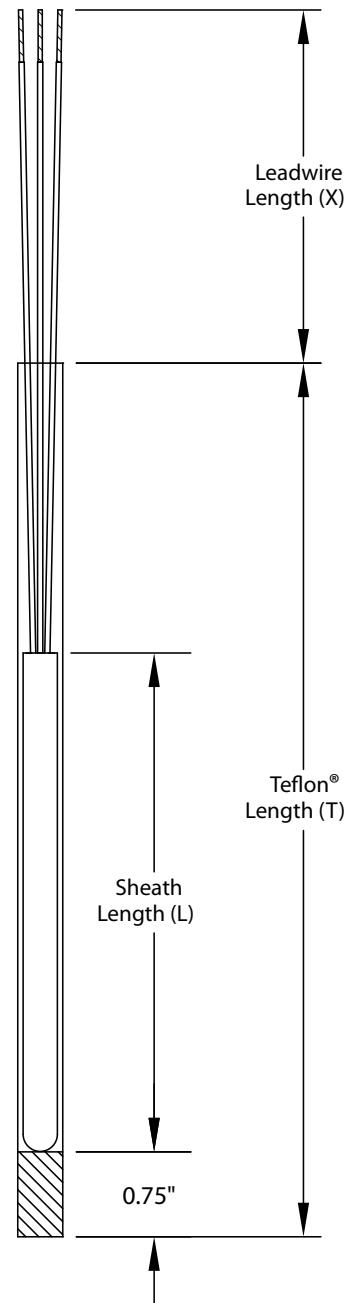
**T#** – (e.g., T12 = 12" of Teflon®)

#### **LEADWIRE LENGTH**

**X#** – (e.g., X12.5 = 12.5 inch length beyond Teflon® sleeve)

#### **OPTIONS** – see page 2-18b

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	3/16	3/16	3/16	3/16	3/16	3/16	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



Teflon® is a registered trademark of DuPont

**AVAILABLE OPTIONS and MODIFICATIONS**

<b>OPTIONAL ELEMENTS</b>		
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.		
<b>ASSEMBLY OPTIONS</b>		
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>WIRING CONNECTION OPTIONS</b>		
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> (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)	

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