SHEATH WITH LEADWIRE AND ARMOR CABLE

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 2-11b 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
03 – **Sheath with leadwire and flexible stainless steel armor cable**; Teflon® insulated conductors
03P – **PVC coated armor**
03T – **Teflon® coated armor**

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)

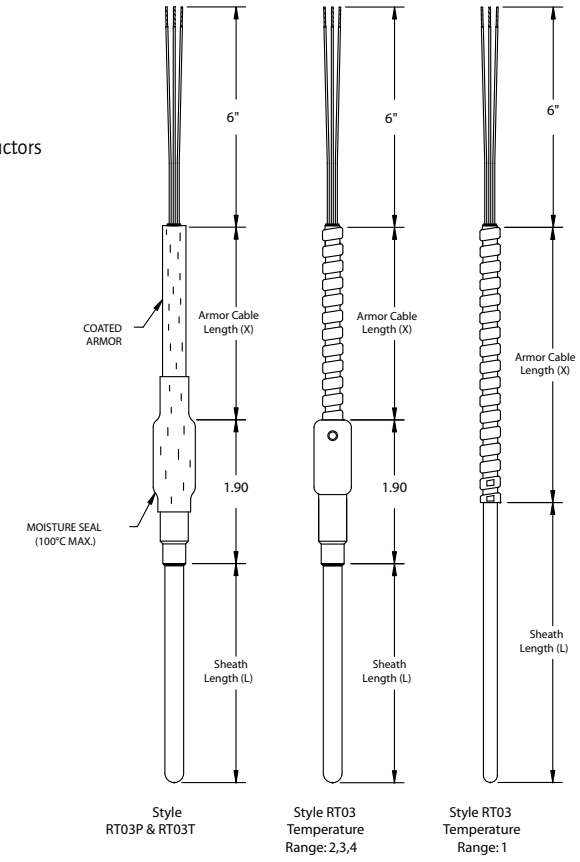
SHEATH MATERIAL
3 – 316 stainless steel

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)

ARMOR CABLE 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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STYLE 03

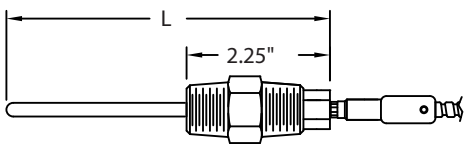
AVAILABLE OPTIONS AND MODIFICATIONS

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)
B90–	90° bend in sheath (specify length from tip in inches e.g., B90-6)
ARMOR OPTIONS	
BA50	Bayonet cap on armor (Style 03, temperature range 1 only) – formerly Style 25
PLUGS AND JACKS (2 and 3-wire construction 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	
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

COMPRESSION FITTINGS			
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

WIRING CONNECTION OPTIONS	
Option Code	Description
WC76	#6 spade terminals
WC70	#10 spade terminals, plated copper
WC84	1/4" push-on insulated terminals, plated copper
WC90	#10 ring terminals
WC98	#8 ring terminals
BX CONNECTORS	
WC40	1/2"
WC50	3/4"
Note: for assembly with sheath, armor and terminal head, see Style 66.	
SPRING-LOADED FITTINGS	
Stainless steel, non-sealed, for sensor diameters 6, 7 & 9	
Option Code	Description
HF50	1/2" x 1/2"
Stainless steel, o-ring sealed, for sensor diameters 6 and 7. O-ring is Buna N, rated -10 to 200°F (-23 to 93°C). Maximum pressure 15 psi.	
HF51	1/2" x 1/2"
Notes: 1. Fitting reduces effective sensor L length by 2.25" (e.g., to properly spring-load into a 9" well, the sensor should be specified with 11.25" minimum). 2. Fitting position is adjustable in the field.	



HF50 Option

Note: Many non-standard options, including additional sheath diameters and materials, may also be available – consult AST for specific requirements.

UE APPLIED SENSOR TECHNOLOGIES
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