

DOUBLE-SIDED, SPRING-LOADED PROCESS MOUNTING WITH TERMINAL HEAD OPTIONS

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

SENSOR TYPE (See page 2-6b 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

75 – Sheath with double-sided, spring-loaded fitting; Teflon® insulated conductors; 1/2" NPT stainless steel connection. (Note: a variety of terminal heads may be added to this style – see page 2-6b)

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)

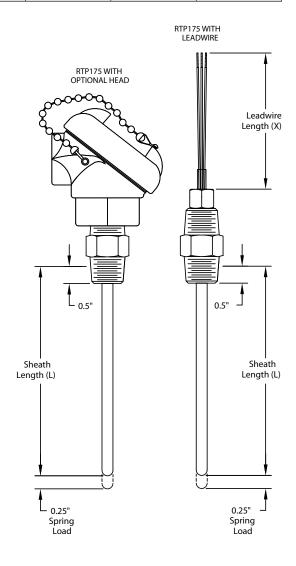
L# - (e.g., L6 = 6 inch sheath)

LEADWIRE LENGTH

X# - (e.g., X3=3 inch length; X3 is standard if specifying a terminal head)

OPTIONS – see back page

Smallest	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				



RTD/75-05

OPTIONAL ELEMENTS					
RTDs are standardly platinum, 100-ohm, DIN-curve elements with a 0.00385 alpha.					
Accuracy (at 0°C)	Construction				
±0.12%	3-wire				
±0.06%	3-wire				
±0.01%	3-wire				
±0.12%	2-wire				
±0.12%	4-wire				
±0.06%	4-wire				
±0.01%	4-wire				
	Accuracy (at 0°C) ±0.12% ±0.06% ±0.01% ±0.12% ±0.12% ±0.06%				

Notes:

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

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ASSEMBLY OPTION	ıs
Option Code	Description
TAG1	Stainless steel tag and wire
CAL1	NIST traceable calibration [specify point(s)]
CRT1	Certificate of conformance
RB10	Replace terminal block with customer supplied part
RB11	Supply assembly with no terminal block inside head
WC20	Wiring cable gland for 0.187 - 0.312 diameter cables, for terminal heads with 1/2" NPT conduit connections
WC21	Wiring cable gland for 0.125 - 0.187 diameter cables, for terminal heads with 1/2" NPT conduit connections
WIRING CONNECT	ION 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
TRANSMITTERS	
TR11	4-20 mA, 2-wire; single input; isolated output; specify range, units of measure (e.g., 0-200°C) and terminal head with *. See Accessories section for additional information.
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 *.

THERMOWELLS & PROTECTION TUBES

For a complete offering of metal, ceramic and composite material thermowells and protection tubes, please see the Thermowell and Protection Tube sections.

STYLE 75

AVAILABLE OPTIONS and MODIFICATIONS

NEMA 4 OR 4X TE	RMINAL HEAD OPT	IONS			
Head without ground screw	Head with internal ground screw	Process Connection		Conduit Connection	
Cast aluminum, scre	w cover with chain, N	EMA 4		•	
HD10*	HD11*	1/2"		1/2"	
HD12*	HD13*	1/2"		3/4"	
Epoxy-coated alumin	num, screw cover with	chain, NEM	A 4X		
HD50*	HD51*	1/2"		1/2"	
HD52*	HD53*	1/2"		3/4"	
Cast iron, screw cove	er with chain, NEMA 4				
HD20*	· · · · · · · · · · · · · · · · · · ·			1/2"	
HD22*	HD23*	1/2"		3/4"	
316 stainless steel, s	crew cover with chain	, NEMA 4X			
HD40*	·			3/4"	
White polypropylene, screw cover with chain, NEMA 4					
HD30	N/A	1/2"		3/4"	
Black polypropylene, screw cover with chain, NEMA 4					
HD31	N/A	1/2"		3/4"	
Nylon, screw cover	<u> </u>			l .	
HD32	N/A	1/2"		1/2"	
EXPLOSION-PROO	F TERMINAL HEAD	OPTIONS	**	ı	
Option Code	ption Code Process Connection			Connection	
	w cover with chain; o- CSA approved for Cla nd screw	5 5			
HD70*	1/2"	2"			
HD71*	1/2"	3/4"			
Stainless steel (same	spec as HD70/HD7	1)			
HD74*	1/2"	1/2"		1/2"	
HD75*	5* 1/2"		3/4"		
Epoxy-coated (same	spec as HD70/HD71)			
HD80*			1/2"		
HD81*	1/2"	3/4"			
	X approved for EEx d ic terminal block; rate ws				
HD72*	1/2"		1/2"		
	1/2"		3/4"	<u> </u>	
HD73*					
Cast aluminum (forn	nerly Style 60); screw Div. 1, Groups C and				
Cast aluminum (forn					
Cast aluminum (forr approved for Class I	Div. 1, Groups C and		roups E, F		

^{**}Note – assemblies using XP heads are not 3rd-party certified. Approval applies to head only.

Note: Many non-standard options, including additional sheath diameters and materials, may also be available – consult AST for specific requirements. HART® is a registered trademark of the HART Communication Foundation.

