

CONNECTION HEAD WITH WELDED HEX FITTING

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	OPTIONS

SENSOR TYPE (See page 2-5b 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

21 - Sheath with head; for use as ambient sensor or with compression fitting for process mounting. See page 2-5b for head options.

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

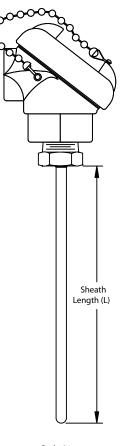
- **1** -45 to 260°C (-50 to 500°F)
- 2 -45 to 482°C (-50 to 900°F)
- **3** -45 to 788°C (-50 to 1450°F)
- **4** -200 to 260°C (-328 to 500°F)

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

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

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				



Style 21

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)
 Additional materials, curves and resitance values are available see Capabilities brochure. 2.

ASSEMBLY OPTIONS	5					
Option Code		Description				
TAG1		Stainless steel tag and wire				
B90-		90° bend in shea	th [specify length from tip	in inches e.g., B90-6)		
B45-		45° bend in shea	th (specify length from tip i	in inches e.g., B45-6)		
CAL1		NIST traceable ca	libration [specify point(s)]			
CRT1		Certificate of conf	ormance			
RB10		Replace terminal block with customer supplied part				
RB11		Supply assembly v	with no terminal block insid	le head		
WC20			d for 0.187 - 0.312 diamete NPT conduit connections	er cables, for terminal		
WC21		Wiring cable gland for 0.125 - 0.187 diameter cables, for terminal heads with 1/2" NPT conduit connections				
TRANSMITTERS - for	comp	olete specs, see Tran	smitters section			
TR11		4-20 mA, 2-wire, single input, isolated output; specify range, units of measure (e.g., 0-200°C) and optional head with *.				
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 *.				
COMPRESSION FITT	INGS	(for diameters 4, 6	, 7)			
Option Code	NP	ī	Material	Ferrule		
CF10	1/8	3"	Stainless steel	Stainless steel		
CF11	1/8	3"	Stainless steel	Teflon®		
CF12	1/8	3"	Brass	Brass		
CF20 1/4		1"	Stainless steel	Stainless steel		
CF21 1/4		1"	Stainless steel	Teflon®		
CF22 1/4		1"	Brass	Brass		
CF30 1/2		2"	Stainless steel	Stainless steel		
CF31 1/2		2"	Stainless steel	Teflon®		
CF32 1/2		2"	Brass	Brass		
WELD PADS						
Option Code		Radius To Fit Pipe				
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				

STYLE 21

AVAILABLE OPTIONS and MODIFICATIONS

NEMA 4 OR 4X TE	RMINAL HEAD OPTI	IONS			
Head without ground screw	Head with internal ground screw			Conduit Connection	
Cast aluminum, scre	w cover with chain, NE	EMA 4			
HD10*	HD11*	1/2"		1/2"	
Std.*	HD13*	1/2"		3/4"	
Epoxy-coated alumin	num, screw cover with	chain, NE	MA 4X		
HD50*	HD51*	1/2"		1/2"	
HD52*	HD53*	1/2"		3/4"	
Cast iron, screw cove	er with chain, NEMA 4				
HD20*	HD21*	1/2"		1/2"	
HD22*	HD23*	1/2"		3/4"	
316 stainless steel, s	crew cover with chain,	NEMA 42	X		
HD40*	HD41*	1/2"		3/4"	
White polypropylene	e, screw cover with cha	in, NEMA	. 4		
HD30	N/A	1/2"		3/4"	
Black polypropylene	, screw cover with chai	in, NEMA	4		
HD31	N/A	1/2"		3/4"	
Nylon, screw cover					
HD32	N/A	1/2"		1/2"	
EXPLOSION-PROO	F TERMINAL HEAD	OPTIONS	**		
Option Code	Option Code Process Connection Conduit Connection				
	w cover with chain; o- CSA approved for Clas nd screw	5 5			
HD70*	1/2"		1/2"		
HD71*	1/2"		3/4"		
Stainless steel (same	specs as HD70/71)		,		
HD74*	1/2"		1/2"		
HD75*	1/2"		3/4"		
Epoxy-coated (same	specs as HD70/71)				
HD80*	1/2"		1/2"		
HD81*	1/2"		3/4"		
	X approved for EEx d l ic terminal block; rated ws				
HD72*	1/2"		1/2"		
HD73*	1/2"		3/4"		
	nerly Style 60); screw ov. 1, Groups C and D; 0				
HD60	1/2"		1/2"		
HD60 HD61	1/2"		1/2" 3/4"		
	1/2"				

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

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.

