

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 page 2-5b

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:

For dual element, add prefix "D" (e.g., DRTP6) 1.

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

ASSEMBLY OPTIC	ONS					
Option Code		Description				
TAG1		Stainless steel tag and wire				
В90-		90° bend in sheath [specify length from tip in inches e.g., B90-6)				
B45-		45° bend in sheath (specify length from tip in inches e.g., B45-6)				
CAL1		NIST traceable calibration [specify point(s)]				
CRT1		Certificate of conformance				
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				
TRANSMITTERS	- for com	olete specs, see Trar	nsmitters 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 termina 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 F	ITTINGS	(for diameters 4, 6	5, 7)			
Option Code NP		Г	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"		Stainless steel	Stainless steel		
CF21	F21 1/4"		Stainless steel	Teflon®		
CF22 1/4		4″	Brass	Brass		
CF30 1/2		2"	Stainless steel	Stainless steel		
CF31 1/2		2"	Stainless steel	Teflon®		
CF32 1/2		2"	Brass	Brass		

STYLE 21

AVAILABLE OPTIONS and MODIFICATIONS

NEMA 4 OR 4X TERMINAL HEAD OPTIONS					
Head without ground screw	Head with internal ground screw	Pr Con	ocess nection	Conduit Connection	
Cast aluminum, scre	w cover with chain, NE	MA 4			
HD10*	HD11*	1/2"		1/2"	
Std.*	HD13*	1/2"		3/4"	
Epoxy-coated alumir	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 4	х		
HD40*	HD41*	1/2"		3/4"	
White polypropylene	, screw cover with cha	in, NEMA	4		
HD30	N/A	1/2"		3/4"	
Black polypropylene,	, screw cover with chai	n, 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	5		
Option Code	Process Connection		Conduit Cor	nection	
Cast aluminum, screw cover with chain; o-ring gasket rated to 100°C; ceramic terminal block; FM/CSA approved for Class I Div. 1, Groups B, C, D; Class II, Groups E, F, G; internal ground screw					
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"		
Cast aluminum; ATEX approved for EEx d IIC; screw cover with chain; silicone rubber o-ring gasket; ceramic terminal block; rated for NEMA 4X, IP66 to IP68; internal and external ground screws					
HD72*	1/2"		1/2"		
HD73*	1/2"		3/4"		
Cast aluminum (formerly Style 60); screw cover; plastic terminal block; UL/CSA approved for Class I Div. 1, Groups C and D; Class II Groups E, F and G.					
HD60	1/2"		1/2"		
HD61	1/2"		3/4"		
*can be used with transmitters					

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.



A Division of UNITED ELECTRIC CONTROLS