

NEMA 4 CONNECTION HEAD WITH FLEXIBLE 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	ARMOR LENGTH	OPTIONS

SENSOR TYPE

RTP1 – Platinum; DIN 0.00385; 100 ohm $\pm 0.12\%$ @ 0°C; 3-wire construction (For dual element, add prefix "D," e.g., **DRTP1**)

ASSEMBLY STYLE

65 – Cast aluminum head with flexible 0.250" stainless steel armor cable; head conforms to NEMA 4 requirements; 3/4" NPT conduit connection; ceramic terminal block; gasketed screw cover with stainless steel chain; Teflon® insulated conductors

65P – PVC coated armor

65T – Teflon® coated armor

SHEATH DIAMETER (in inches)

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°C)

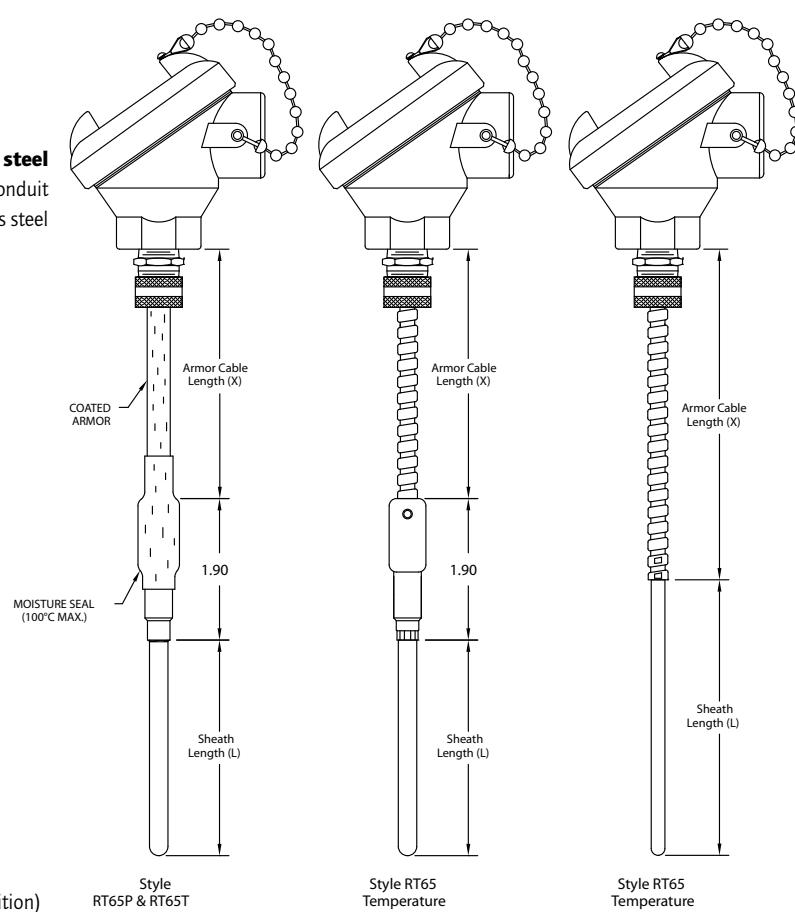
SHEATH LENGTH (For lengths greater than L=36", consult AST)

L# – Specify overall length of sheath (e.g., L12 = 12" from tip to transition)

ARMOR LENGTH

X# – Specify overall length of flexible armor (e.g., X72 = 72" from terminal head to transition)

OPTIONS – see back page



Smallest Diameter Sheath Available By Sensor Type and Temperature Range

Temp Range	SINGLE							
	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	3/16
2	3/16	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			

Temp Range	DUAL							
	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				

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

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)
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

TRANSMITTERS – For complete specs, see Transmitters section

TR11	4-20 mA, 2-wire transmitter, single input, isolated output; specify range, units of measure (e.g. 0-200°C) and optional terminal 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 *.

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	4.0" 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

STYLE 65**AVAILABLE OPTIONS and MODIFICATIONS**

NEMA 4 OR 4X TERMINAL HEAD OPTIONS			
Head without ground screw	Head with internal ground screw	Process Connection	Conduit Connection
Cast aluminum, screw cover with chain, NEMA 4			
HD10*	HD11*	1/2"	1/2"
Std.*	HD13*	1/2"	3/4"
Epoxy-coated aluminum, screw cover with chain, NEMA 4X			
HD50*	HD51*	1/2"	1/2"
HD52*	HD53*	1/2"	3/4"
Cast iron, screw cover with chain, NEMA 4			
HD20*	HD21*	1/2"	1/2"
HD22*	HD23*	1/2"	3/4"
316 stainless steel, screw cover with chain, NEMA 4X			
HD40*	HD41*	1/2"	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			
HD32	N/A	1/2"	1/2"
*can be used with transmitters			
ARMOR OPTIONS			
BA50	Bayonet cap on armour (Style 65, temperature range 1 only)		

Notes:

1. See Accessories for additional information.

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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.