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	CALIBRATION	HOT JUNCTION	SHEATH LENGTH	OPTIONS

SENSOR TYPE

MI - Mineral insulated thermocouple

ASSEMBLY STYLE

21 – Sheath with cast aluminum head and welded stainless steel connection; for use as ambient sensor or with compression fitting for process mounting; head conforms to NEMA 4 requirements; 3/4" conduit connection; ceramic terminal block; gasketed screw cover with stainless steel chain. See page 1-7b for other head options.

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

5 - Inconel® 600

CALIBRATION – Standard Limits

J - Single J

JJ - Dual J

K - Single K

KK - Dual K

T - Single T

TT - Dual T

E - Single E

EE - Dual E

Special limits are available - consult AST

HOT JUNCTION

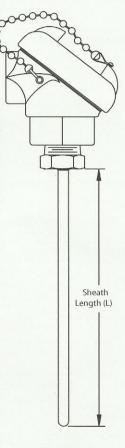
G – Grounded junction

U – Ungrounded junction

E – Exposed junction

SHEATH LENGTH (Note: lengths over L84 will be shipped coiled unless otherwise specified at time of order) L# – (e.g., L6 = 6" sheath, L12.5 = 12.5" length)

OPTIONS - see page 1-7b



Style 21

ASSEMBLY OP		D' :'					
Option Code		Description					
TAG1		Stainless steel tag and wire					
B90-		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					
COMPRESSION	I FITTIN	IGS (for diam	eters 4, 6, 7)				
Option Code	NP		Material	Ferrule			
CF10	CF10 1/		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			
TRANSMITTER	S - for c	omplete spec	s, see Transmitters s	section			
TRII	rar hea	4-20 mA, 2-wire, single input, isolated output; specify range, units of measure (e.g., 0-200°C) and optional head with *. See Accessories section for additional information.					
TR12	ou	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	iso	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							
Option Code	Radi	Radius To Fit Pipe					
WP00	Hori	Horizontal pad/flat					
WP10	1" n	1" nominal pipe size					
WP15	1.5"	1.5" nominal pipe size					
WP20	2" n	2" nominal pipe size					
WP25	2.5"	2.5" nominal pipe size					
WP30	3" n	3" nominal pipe size					
WP35	3.5"	3.5" nominal pipe size					
WP40	4" n	4" nominal pipe size					

AVAILABLE OPTIONS and MODIFICATIONS

NEMA 4 OR 4X	TERMINAL HEAD	OPTIONS	S		
Head without ground screw	Head with internal ground screw	Process Connection		Conduit Connection	
Cast aluminum, s	crew cover with cha	in			
HD10*	HD11*	1/2"		1/2"	
Std.*	HD13*	1/2"		3/4"	
Epoxy-coated, cas	st aluminum, NEMA	4X			
HD50*	HD51* 1/2"			1/2"	
HD52*	HD53*	1/2"		3/4"	
Cast iron, screw o	over with chain				
HD20*	HD21* 1/2"			1/2"	
HD22*	HD23*	1/2"		3/4"	
316 stainless stee	el, screw cover; NEM	A 4X			
HD40*	HD41*	1/2"		3/4"	
Polypropylene, w	hite, screw cover				
HD30	N/A	1/2"		3/4"	
Polypropylene, bl	ack screw cover				
HD31	N/A	1/2"		3/4"	
Nylon, screw cove	er er				
HD32	N/A	1/2"		1/2"	
EXPLOSION-PR	OOF TERMINAL H	EAD OPT	IONS		
Option Code				t Connection	
ceramic terminal	crew cover with cha block; FM/CSA app s E, F, G; internal gro	roved for	Class I Di		
HD70*	1/2"	1		1/2"	
HD71*	1/2"		3/4"	3/4"	
Epoxy-coated					
HD80*	1/2"		1/2"	1/2"	
HD81*	1/2"		3/4"	3/4"	
silicone rubber o-	ATEX approved for E ring gasket; ceramic ernal and external g	terminal	block; rat		
HD72*	1/2"		1/2"	1/2"	
HD73*	1/2"		3/4"	3/4"	
	Formerly Style 60); s d for Class I Div. 1, (
HD60	1/2"		1/2"		
TIDOO				The second secon	

Note: See Accessories section for outline drawings and additional specs.



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.