

NEMA 4 CONNECTION HEAD WITH TUNGSTEN CARBIDE TIP FOR ABRASIVE APPLICATIONS

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	CALIBRATION	HOT JUNCTION	LENGTH	OPTIONS

SENSOR TYPE

GP – General purpose thermocouple

ASSEMBLY STYLE

82 – **Tungsten Carbide tip**; carbon steel nipple and aluminum head; for use in high abrasion applications such as asphalt and cement; head conforms to NEMA 4 requirements; 3/4" conduit connection, ceramic terminal block; gasketed screw cover with stainless steel chain (Note: nipple is not sealed against the media, cannot be pressurized and must be mounted vertically or at an angle to prevent material from entering head)

CALIBRATION – Standard limits

- J** – Single J **JJ** – Dual J
- K** – Single K **KK** – Dual K
- E** – Single E **EE** – Dual E
- T** – Single T **TT** – Dual T

HOT JUNCTION

- G** – Grounded junction
- U** – Ungrounded junction

LENGTH

L# – Specify overall length of nipple and tip (e.g., L12 = approximately 12" from tip to head)

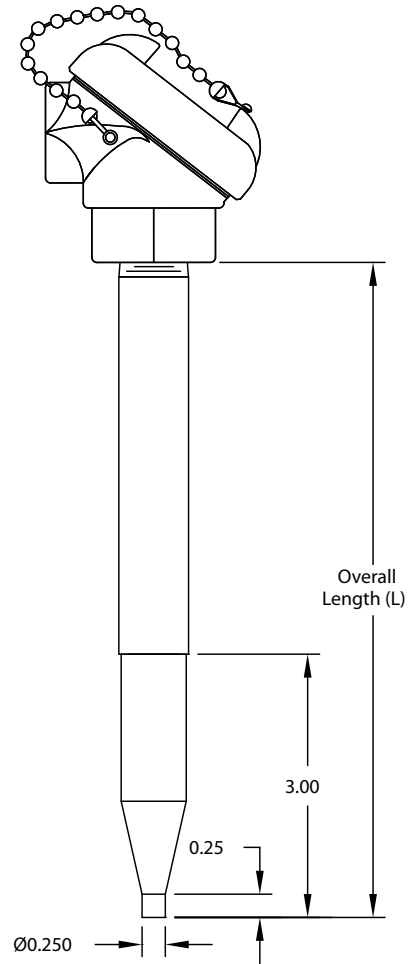
Standard lengths:

L9

L12

Other lengths available - consult AST

OPTIONS – see back page



STYLE 82

AVAILABLE OPTIONS and MODIFICATIONS

ASSEMBLY OPTIONS	
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
TRANSMITTERS – For complete specs, see Transmitters section	
TR11	4-20 mA, 2-wire transmitter, single input, isolated output; specify range and units of measure (e.g., 0-200°C)
TR12	4-20 mA, 2-wire transmitter, single input, non-isolated output; specify range and units of measure (e.g., 0-200°C)
TR13	HART®/ 4-20 mA, 2-wire transmitter, single input, isolated output; specify range and units of measure (e.g., 0-200°C)

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"

Notes:

1. See Accessories for additional information

EXTENSION WIRE

A selection of extension-grade thermocouple wire is available to connect the sensor to its input device. Consult Accessories section.