EXPLOSION-PROOF CONNECTION HEAD WITH SPRING-LOADED ASSEMBLY AND MOUNTING HARDWARE

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!

<table>
<thead>
<tr>
<th>SENSOR TYPE</th>
<th>ASSEMBLY STYLE</th>
<th>CONNECTION</th>
<th>CONNECTION LENGTH</th>
<th>SHEATH DIAMETER</th>
<th>SHEATH MATERIAL</th>
<th>CALIBRATION</th>
<th>HOT JUNCTION</th>
<th>SHEATH LENGTH</th>
<th>OPTIONS</th>
</tr>
</thead>
</table>

**SENSOR TYPE**
MI – Mineral insulated thermocouple

**ASSEMBLY STYLE**
77 – Sheath with cast aluminum head; spring-loaded in head; CSA/FM approved head for Class I, Division 1, Groups B, C, D; Class II, Groups E, F, G; screw cover with chain and gasketed o-ring; designed for NEMA 4; ceramic terminal block; 1/2” NPT conduit and process connections.

**CONNECTION**
H – Head only, no mounting hardware; 1/2” NPT (female) instrument connection
N – 1/2” NPT carbon steel nipple
NU – 1/2” NPT carbon steel nipple and plated steel explosion-proof union
NUN – 1/2” NPT carbon steel nipples and plated steel explosion-proof union
   Add suffix “1S” for 304 stainless steel nipples

**CONNECTION LENGTH**
### (e.g., 006 = 6 inch)
(See chart below for standard available lengths)

**SHEATH DIAMETER**
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

**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

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

**OPTIONS** – see back page

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**STANDARD AVAILABLE CONNECTION LENGTHS**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>NU</td>
<td>NUN</td>
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<tr>
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<tr>
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<tr>
<td>6.00</td>
<td>8.00</td>
<td>14.00</td>
</tr>
</tbody>
</table>

*NUN 2S OPTION AVAILABLE IN THESE LENGTHS ONLY.

DIMENSIONS ARE GIVEN IN INCHES
### AVAILABLE OPTIONS and MODIFICATIONS

#### EXPLOSION-PROOF TERMINAL HEAD OPTIONS

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Process Connection</th>
<th>Conduit Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD71</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>HD80</td>
<td>1/2&quot;</td>
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</tr>
<tr>
<td>HD81</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

Note: Many non-standard options, including additional sheath diameters and materials, may also be available – consult AST for specific requirements.

#### ASSEMBLY OPTIONS

<table>
<thead>
<tr>
<th>Option Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAG1</td>
<td>Stainless steel tag and wire</td>
</tr>
<tr>
<td>CAL1</td>
<td>NIST traceable calibration [specify point(s)]</td>
</tr>
<tr>
<td>CRT1</td>
<td>Certificate of conformance</td>
</tr>
</tbody>
</table>

#### TRANSMITTERS

See Style 48 for available transmitters.

#### THERMOWELLS & PROTECTION TUBES

For a compete offering of metal, ceramic and composite material thermowells and protection tubes, please see the Thermowell and Protection Tube sections.

#### EXTENSION WIRE

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

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

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`H260 THERMOWELL`  
`F260 THERMOWELL`