### Specialty Sensors - Surface

#### Tubeskin Thermocouples - Type 1510

**To order:** Indicate the code letter or value for each requirement.

<table>
<thead>
<tr>
<th>Head Type</th>
<th>Sensor Type</th>
<th>Calibration</th>
<th>OD</th>
<th>Sheath Length</th>
<th>Sheath Material</th>
<th>Lead Length</th>
<th>Lead Wire</th>
<th>Pipe Size NPT</th>
<th>Pad Mounting</th>
<th>Options</th>
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**HEAD TYPE**
- 0: No Head
- CA: Cast Aluminum
- CI: Cast Iron
- CSS: Cast Stainless Steel
- PPS: Polypropylene Sanitary
- FTA: Flip Top Aluminum
- FTP: Flip Top Poly (white)
- EPA: Explosion Proof Aluminum
- EAPA: Explosion Proof Aluminum ATEX
- EPS: Explosion Proof Stainless Steel
- EHA: Explosion Proof Aluminum
- EHI: Explosion Proof Iron

**SENSOR**

**Sensor Calibration**
- J: Iron Constantan®
- K: Chromel® Alumel®
- T: Copper Constantan®
- E: Chromel® Constantan®
- N: Nicrosil® Nisil®

For special limits on thermocouples, repeat calibration code, i.e. JJ.

**Sensor OD**
- 18: 1/8”
- 316: 3/16”
- 14: 1/4”
- 516: 5/16”
- 38: 3/8”

**Sensor Junction**
- G: Grounded
- U: Ungrounded
- DG: Dual Grounded
- DU: Dual Ungrounded

#### Tubeskin Thermocouples - Type 1520

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<table>
<thead>
<tr>
<th>Head Type</th>
<th>Sensor Type</th>
<th>Extension</th>
<th>A Length</th>
<th>Calibration</th>
<th>OD</th>
<th>Sheath Length</th>
<th>Sheath Material</th>
<th>Pipe Size NPT</th>
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**EXTENSION**
- N: Nipple Galvanized
- NUN: Nipple/Union/Nipple Galvanized
- NS: Nipple Stainless Steel
- NUNS: Nipple/Union/Nipple Stainless Steel
- PNUN: Pressure Seal in Union Galvanized
- PNUNS: Pressure Seal in Union Stainless Steel

See page A7 for additional information.

#### PIPE MOUNTING (See 1510 section for illustration)
- P: Parallel
- W: Wrap Around
- BP: Weld Bevel - Parallel
- F: Flat

**OPTIONS**
- A: Armor (Stainless Steel)
- AP: Armor with PVC Jacket
- BS: Bell Spring Transition Relief
- CG12: Weather Tight Fitting 1/2” NPT
- CT: Compensated Terminals (EHA/EHI heads only)
- EL: Expansion Loop
- HS: Heat Shield
- SB: Stainless Steel Overbraid
- SS18: Adj SS Comp Fitting 1/8” NPT*
- SS14: Adj SS Comp Fitting 1/4” NPT*
- ST: Smooth Transition
- *Add T after SS for Teflon® Ferrule

Note: For Tubeskins with Expansion Loops please provide sketch showing:
1. A) Number of loops, B) Location, C) OD of loops

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