

# INDUSTRIAL RTD'S

|   |      |                              |
|---|------|------------------------------|
| A | CODE | HEAD EXTENSION               |
|   | 2    | NIPPLE (NOTE 1)              |
|   | 4    | NIPPLE/UNION/NIPPLE (NOTE 1) |

| CONNECTION HEAD |                                      |   |       |
|-----------------|--------------------------------------|---|-------|
| CODE            | MATERIAL                             | TYPE  | NEMA  |
| AN              | ALUMINUM                             | WATER PROOF                                     | 4     |
| SN              | STAINLESS STEEL                      | WATER PROOF, CORROSION RESISTANT                | 4, 4X |
| AE              | ALUMINUM                             | EXPLOSION PROOF (NOTE 2)                        | 4     |
| SE              | STAINLESS STEEL                      | EXPLOSION PROOF, CORROSION RESISTANT (NOTE 2)   | 4, 4X |
| XD              | ALUMINUM                             | EXPLOSION PROOF, FM, CSA APPROVED (NOTES 2 & 3) | 4, 4X |
| A               | CAST IRON                            | WEATHER PROOF, RUGGED                           |       |
| L               | POLYPROPYLENE                        | WEATHER PROOF, LIGHT WEIGHT                     |       |
| AX              | ALUMINUM, LARGE DEVICE, EPOXY COATED | EXPLOSION PROOF, ATEX APPROVED (NOTE 3)         | 4     |

|   |      |                 |   |      |              |   |      |            |
|---|------|-----------------|---|------|--------------|---|------|------------|
| C | CODE | CONDUIT OPENING | D | CODE | TUBE OPENING | E | CODE | "A" LENGTH |
|   |      | 1/2 or 3/4NPT   |   |      | 1/2NPT       |   |      | IN INCHES  |

|   |      |                      |
|---|------|----------------------|
| F | CODE | STRUCTURE            |
|   |      | SINGLE (LEAVE BLANK) |
|   | D    | DUPLEX               |

|   |      |   |
|---|------|---|
| G | CODE | SHEATH DIAMETER (STANDARD 316 STN. STL.) (NOTE 4) |
|   | 316  | 3/16" (.187)                                      |
|   | 14   | 1/4" (.250)                                       |

|   |      |               |          |         |                           |
|---|------|---------------|----------|---------|---------------------------|
| H | CODE | STANDARD      | MATERIAL | TCR     | RESISTANCE @ 0° C.        |
|   |      | DIN 43760     | PLATINUM | .00385  | 100 OHMS (LEAVE BLANK)    |
|   | PT5  | DIN 43760     | PLATINUM | .00385  | 500 OHMS                  |
|   | PT1  | DIN 43760     | PLATINUM | .00385  | 1000 OHMS (LT RANGE ONLY) |
|   | JIS  | JIS-C-1604-81 | PLATINUM | .003916 | 100 OHMS                  |
|   | SA   | RC21-4-1966   | PLATINUM | .003923 | 98.129 OHMS               |
|   | CU   |               | COPPER   | .00427  | 10 OHMS (LT RANGE ONLY)   |
|   | NI   |               | NICKEL   | .00672  | 120 OHMS                  |

|   |      |   |
|---|------|---|
| J | CODE | TEMPERATURE RANGE                               |
|   | LT   | -58 to +500° F (-50 to +260° C.)                |
|   | MT   | -58 to +900° F (-50 to +482° C.)                |
|   |      | -292 to +932° F (-180 to +500° C) (LEAVE BLANK) |
|   | HT   | -292 to +1202° F (-180 to +650° C) (NOTE 5)     |

|   |      |                                   |
|---|------|-----------------------------------|
| K | CODE | SYSTEM                            |
|   | 2W   | 2 WIRE (4 WIRE TOTAL WITH DUPLEX) |
|   |      | 3 WIRE (LEAVE BLANK)              |
|   | 4W   | 4 WIRE (8 TOTAL WITH DUPLEX)      |

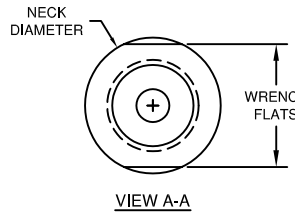
|   |      |                                  |
|---|------|----------------------------------|
| L | CODE | ACCURACY                         |
|   |      | ASTM E1137 CLASS B (LEAVE BLANK) |
|   | CLA  | ASTM E1137 CLASS A               |

|   |      |             |      |      |      |                   |
|---|------|-------------|------|------|------|-------------------|
| M | CODE | PROCESS NPT | OD-1 | OD-2 | ID   | NECK DIAM. (MIN.) |
|   | 24   | 1"          | .750 | 1.11 | .385 | 1.38"             |
|   | 25   | 3/4"        | .750 | .844 | .385 | 1.25"             |
|   | 241  | 1"          | .750 | 1.11 | .260 | 1.38"             |
|   | 251  | 3/4"        | .750 | .844 | .260 | 1.25"             |

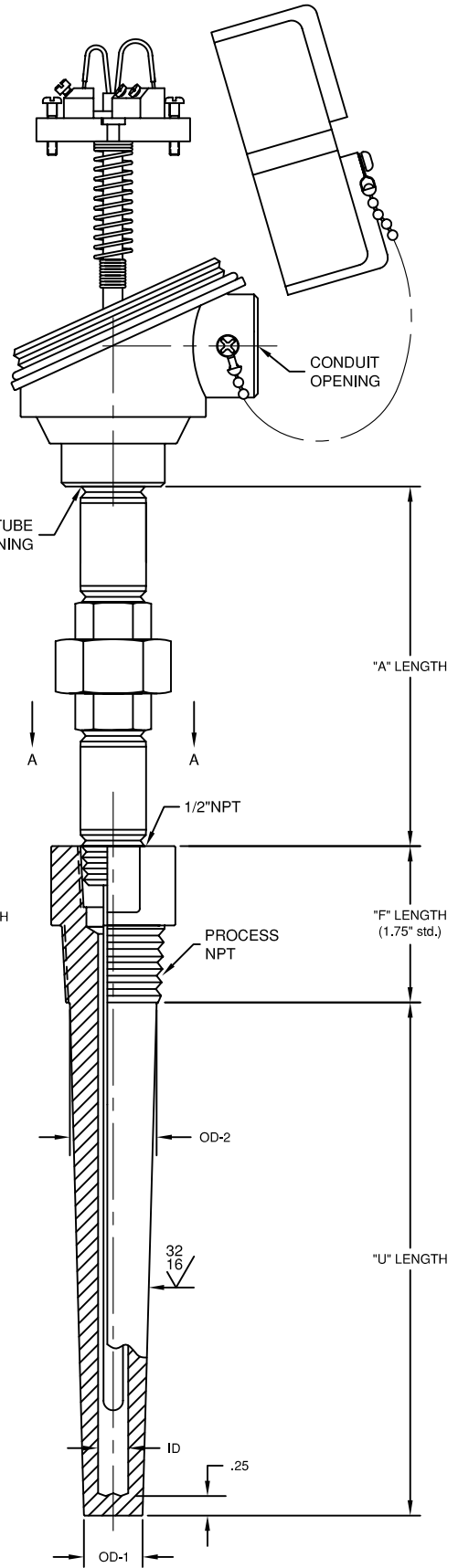
|   |       |                     |
|---|-------|---------------------|
| N | CODE  | WELL MATERIAL       |
|   | Y     | 446 STAINLESS STEEL |
|   | H     | HASTELLOY C276      |
|   | L     | MONEL 400           |
|   | J     | INCONEL 600         |
|   | Q     | 310 STAINLESS STEEL |
|   | (F11) | 1.25% CR - .5% MO   |
|   | (F22) | 2.25% CR - 1% MO    |

|   |      |                        |
|---|------|------------------------|
| P | CODE | "F" LENGTH             |
|   |      | IN INCHES (1.75" STD.) |

|   |      |            |
|---|------|------------|
| Q | CODE | "U" LENGTH |
|   |      | IN INCHES  |



- Notes:
- (1) Standard Nipples - Steel, Schedule 40. Standard Unions - Black Malleable Iron, 150#. OPTIONAL STAINLESS STEEL Nipples - 304 or 316 Stainless Steel, Schedule 40 or 80. Unions - 304 or 316 Stainless Steel. Example Ordering Code: 4AE 3/4 1/2 6(R or R80).
  - (2) Rated NEC class 1, Groups B, C and D.
  - (3) ATEX approved EEx d IIC, T6.
  - (4) Contact factory for other sheaths and element types.
  - (5) Standard in single construction, 3 wire, class B, Inconel sheath material.
  - (6) For an item that does not fall within the catalog description an (SP) can be added to the ordering code as part of a custom construction.



EXAMPLE: 4 AE  $\frac{3}{4}$  -  $\frac{1}{2}$  - 4 - D 14 PT5 LT 4W CLA - 25 Q 1.75 - 8

A B C D E F G H J K L M N P Q



TEMPERATURE MEASUREMENT DESIGNER'S GUIDE  
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## SECTION INRD

### DRILLED THREADED WELL ASSEMBLIES TAPERED CONSTRUCTION, ALLOY METALS 3/4 & 1\"/>

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Doc. No.: TE-CO010109-INRD-030