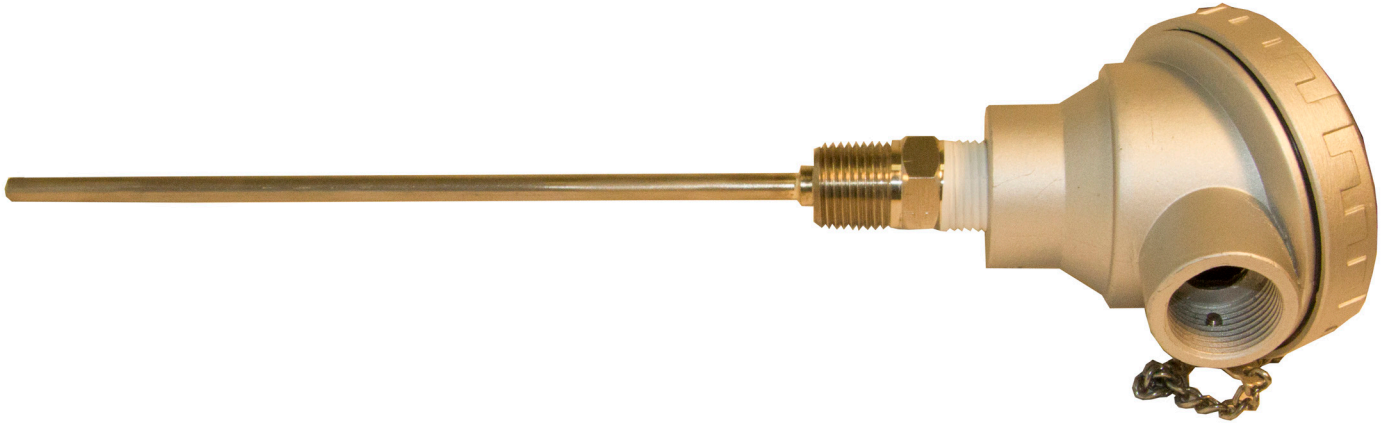


MgO MINERAL INSULATED THERMOCOUPLES & RTD'S - RIGID STYLE

A5100 - MgO RIGID STYLE



**MINERAL INSULATED THERMOCOUPLE**

Mineral Insulated thermocouples are fast responding thermocouples that are capable of handling high temperatures. The sensors are insulated by a rock hard layer of compacted MgO, which are both protected by an outer metal sheath. This combination of materials allow for fast heat transfer resulting in excellent response time. The layer of MgO protects the sensor from moisture and thermal shock, while giving it the capability to handle high temperature/ high pressure environments. The outer sheath allows forming/ bending of the thermocouple while not compromising its functionality. It also protects the sensor from oxidation and harsh environments.

**STANDARD TERMINAL BLOCK**

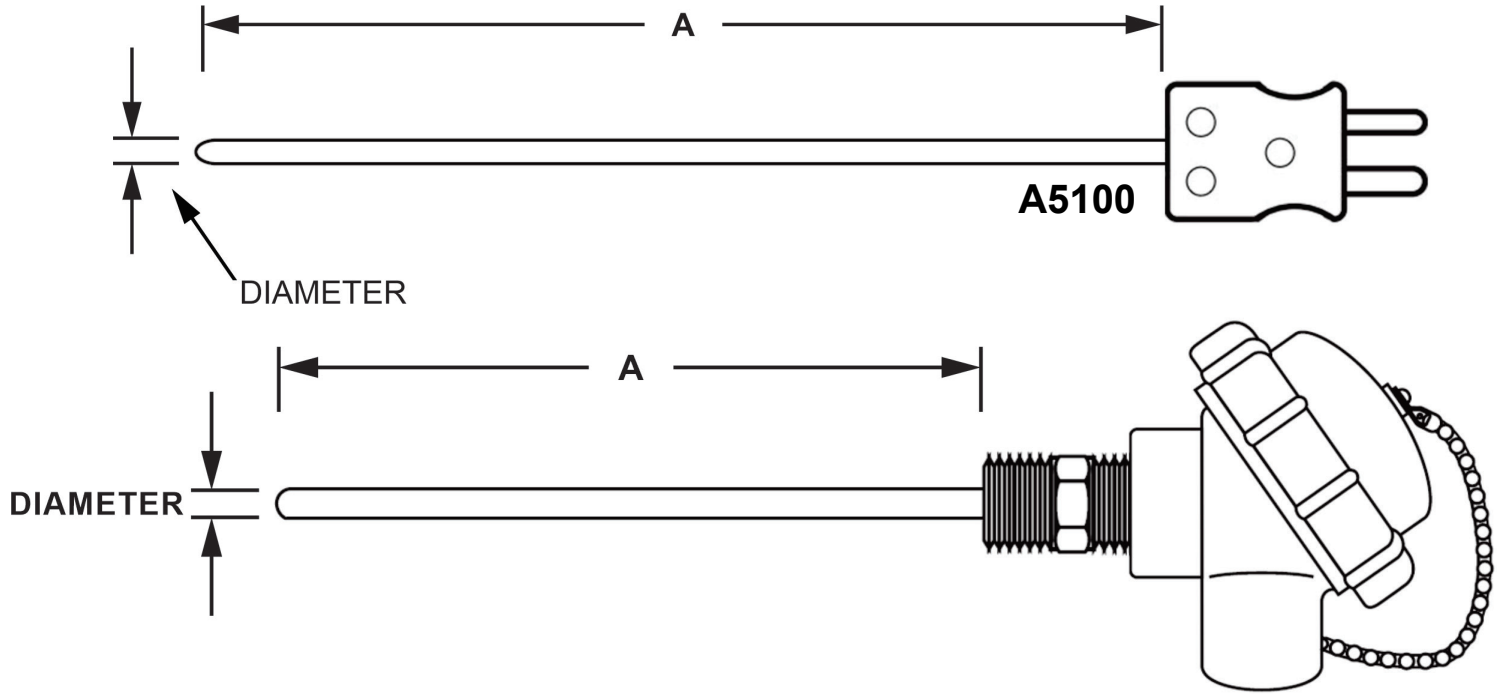


**T - TRANSMITTER (RANGE)**



**WE CAN PROGRAM THE TRANSMITTER**  
**\*\*SPECIFY OUTPUT WHEN ORDERING\*\***

## A5100 - DIMENSIONS



### PROCESS CONNECTION

MEASURE THE DIAMETER AT THE THICKER END OF THE TAPERED THREAD

| NPT THREADS     |             |
|-----------------|-------------|
| NPT THREAD SIZE | D DIMENSION |
| 1/4"NPT         | 0.540"      |
| 1/2"NPT         | 0.840"      |

### A5100 - OPTIONS

| OPTION CODE        | DESCRIPTION   |
|--------------------|---|
| S - SPRING LOADED  | SENSING ELEMENT IS SPRING LOADED WITHIN THERMOWELL. INCREASED RESPONSE TIME AND ACCURACY. |
| C - NIST TRACEABLE | PRODUCT WILL BE CERTIFIED BY NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)        |

## A5100 - ORDER CODE

**A5100XX - A - X - E - X - X - X**

|                            |                    |                       |                 |                               |                           |                                   |
|----------------------------|--------------------|-----------------------|-----------------|-------------------------------|---------------------------|-----------------------------------|
| <b>TYPE</b>                | <b>STEM LENGTH</b> | <b>DIAMETER</b>       | <b>JUNCTION</b> | <b>TERMINATION</b>            | <b>PROCESS CONNECTION</b> | <b>OPTIONS</b>                    |
| J - TYPE J                 | 4 - 4" (101mm)     | 1/16 - 1/16" (1.59mm) | E - EXPOSED     | P - MALE PLUG                 | N - NONE                  | <blank> - STANDARD TERMINAL BLOCK |
| JJ - DUPLEX TYPE J         | 6 - 6" (152mm)     | 1/8 - 1/8" (152mm)    | G - GROUNDED    | F - FEMALE JACK               | B2 - 1/2" NPT BRASS       | S - SPRING LOADED                 |
| K - TYPE K                 | 8 - 8" (203mm)     | 3/16 - 3/16" (203mm)  | U - UNGROUNDED  | AL - LARGE CAST ALUMINUM      | S2 - 1/2" NPT STEEL       | T - TRANSMITTER (RANGE)           |
| KK - DUPLEX TYPE K         | 10 - 10" (254mm)   | 1/4 - 1/4" (254mm)    | 3 - 3-WIRE      | AS - SMALL CAST ALUMINUM      | SS2 - 1/2" NPT STAINLESS  | S6 - 316SS                        |
| T - TYPE T                 | X - CUSTOM         | 5/16 - 5/16" (254mm)  | 4 - 4-WIRE      | PL - PLASTIC                  | B4 - 1/4" NPT BRASS       | I600 - INCONEL 600                |
| TT - DUPLEX TYPE T         |                    | 3/8 - 3/8" (254mm)    | X - CUSTOM      | ALE - CAST ALUMINUM EXPLOSION | S4 - 1/4" NPT STEEL       | I800 - INCOLOY 800                |
| T - TYPE T                 |                    |                       |                 | FDA - FDA COMPLIANT PLASTIC   | SS4 - 1/4" NPT STAINLESS  | C - NIST TRACEABLE                |
| RTD - PT100(200°C)         |                    |                       |                 | E - EPOXY COATED ALUMINUM     | FL - FLANGE MOUNT         |                                   |
| RTDD - DUPLEX PT100(200°C) |                    |                       |                 | FDAF - FDA COMPLIANT FLIP TOP |                           |                                   |
| RT4 - PT100(400°C)         |                    |                       |                 |                               |                           |                                   |
| RT44 - DUPLEX PT100(400°C) |                    |                       |                 |                               |                           |                                   |