**MODEL Si410**

**CRYOGENIC TEMPERATURE SENSOR SILICON DIODE THERMOMETER**

**STANDARD CONFIGURATION**

- **Si410 Interchangeable Diode**

  **Accuracy**

  - **Group AA**
    - ± 0.1K from 1.5K to 25K
    - ± 0.5K from 25K to 450K
  - **Group A**
    - ± 0.3K from 1.5K to 25K
    - ± 0.5K from 25K to 450K
  - **Group B**
    - ± 1.0K from 1.5K to 25K
    - ± 2.0K from 25K to 450K
  - **Group C**
    - ± 0.5K from 1.5K to 25K
    - ± 1.0K from 25K to 450K

**Si420 Industrial Diode**

All Si420 sensors have the following accuracy:

- ± 2K from 4K to 25K
- ± 5K from 25K to 450K

**ISO 9001 REGISTERED**
**MODEL Si410**

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**Typical Response Curve**

Reference Standards for Temperature Measurements: 1.5K–100K - Germanium - NIST Calibrated
100K–450K - Platinum - NIST Calibrated

**Silicon Diode Thermometer**

Calibration Current: 10 microamps

![Typical Response Curve](image)

**Notes:**

1. Model Si410 and Si420 sensors are normally mounted in a gold-plated copper case with 4 each 36 AWG Polyimide insulated, color-coded, phosphor bronze leads. Case size is 0.093" diameter by 0.250" long. Other packages can be supplied; consult the factory.

2. Individual Model Si410 sensors can be calibrated at 10 or 100 microamps over various standard temperature ranges (see price sheet for ranges) at the following accuracies:

   - $\pm 0.05K$ from 1.5K to 25K
   - $\pm 0.10K$ from 25K to 450K