### OKAZAKI

## **CRYOGENIC TEMPERATURE SENSOR**

Our cryogenic temperature sensors are used in various fields such as aerospace, medical, and semiconductor equipment. Based on our experience and technology, we offer products that best suit our customers' operating environment and applications.





### **New Product**

Stable performance under severe environments



Sheath type Outer diameter:  $\phi$ 4.8 to  $\phi$ 8.0

# Vibration-resistant platinum resistance thermometer

Ideal for use in environments subject to vibrations and shocks.

- Applying technology developed in temperature sensors for use in space
- Tightly wound platinum resistance wires for superior vibration resistance

Resistance:  $500\Omega/1000\Omega/2000\Omega$  at 273 K (mounted type only) Temperature range: 4 K to 373 K Temperature vs Resistance table: Supplied with each individual sensor

(4-point calibration; 4 K, 90 K, 273 K, or 373 K)

Measuring current: 0.1 to 1 mA Element dimensions:  $\phi$ 1.5 × 18 mm (sheath type); W4.6 × D12 × H1.3 (surface-mounted type) Applications: Temperature measurement for liquid hydrogen tanks and piping systems, satellite equipment, etc.



Surface-mounted type

W:4.6mm D:12mm H:1.3mm

### OKAZAKI CRYOGENIC TEMPERATURE SENSOR

### Platinum cobalt resistance thermometer



Capsule type

### Type E sheathed thermocouple



Sheathed thermocouples offer superior responsiveness, easy installation and a choice of hazardous area certification for various uses. Suitable for measuring the temperature inside tanks of commercial facilities.

Element: Type E Temperature range: 20 K to 313 K Sheath diameter:  $\phi$ 1.0,  $\phi$ 1.6 Tolerance:  $\pm$ 2.5 K at 106 K to 313 K /  $\pm$ 0.015 | t-273.15 | K at 20 K to 106 K



Applications: Temperature measurement for liquid hydrogen tanks and piping systems, etc. Hazardous area certification: Explosion/Flame Proof, Intrinsically Safe

### Options

The main options are listed below. Contact us for more information.

Customization: Various shapes and materials available for the measuring part, process connection, sensor construction (MI cable type) etc.; hazardous area certification; material change of lead wire etc.

Temperature testing: Addition of calibration temperature points, creation of temperature vs resistance table (We have a JCSS accredited calibration room in compliance with international MRA)

Temperature transmitter: Configuring the transmitter with Temperature vs Resistance table Maintenance: Periodic temperature calibration (for checking temperature readings)







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Information in this catalog is subject to change without notice. We are constantly expanding the scope of our calibration services. Contact a sales representative for more information. CAT. NO. OMC-8008E

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