FLAME PROOF TYPE MINERAL INSULATED THERMOCOUPLE FOR HIGH PRESSURE HYDROGEN TEMPERATURE

Explosion/Flame Proof Sheathed Thermocouple for High-pressure Hydrogen Temperature Sensing

Meeting the needs of hydrogen stations for fuel cell vehicle and the coming hydrogen economy.

- Excellent pressure resistance for temperature sensing under high-pressures of 400 MPa!
- Explosion-proof design allows for use in the presence of hydrogen! ExdIICT6
- The ungrounded thermocouple measuring junction allows for use at 100 MPa!



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Sheathed Thermocouple With Excellent Pressure Resistance and Explosion/Flame Proof Design

The high-pressure tanks with which fuel cell vehicles are equipped are filled with hydrogen, the fuel for these vehicles. Today's fuel cell vehicles require high pressures of 35 MPa - 70 MPa, so hydrogen stations are equipped with the piping and tanks to supply hydrogen at these pressures. Safe management of the hydrogen requires high-pressure hydrogen temperature sensors, so we have begun providing products that respond to these needs.

The structure of the sheathed part allows for extremely good pressure resistance, and thus temperature sensing at high-pressure locations of up to 400 MPa at high-pressure plants. Hydrogen stations handle combustible hydrogen gas, however, so these require the use of explosion-proof electrical equipment and our temperature sensors must also be explosion and flame proof. Therefore, the ungrounded thermocouple measuring junction is designed for use at up to 100 MPa to comply with the laws and regulations of Japan.





[Specifications]

Model: T99

Explosion/Flame Proof Class: ExdIICT6 Thermocouple Type: K, T Sheath Material: SUS 316 Sheath Diameter: ø1.6 Measuring Junction: ungrounded Maximum Operational Pressure: 100 MPa High-pressure Seal: Sno-Trik (photo) or BuTech Pressure System Special sheath for high-pressure

[Option]

When requested, we offer designs using SUS 316 with a nickel equivalent exceeding 28.5 for the gas contact part.

Please contact the nearest sales office in advance.

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