FES SENSOR TECHNOLOGY GMBH

H2-CCT I2C*

www.fes-sensor.com

Calorimetric Constant-Temperature Hydrogen Sensor with Implemented Digital Temperature Sensor and EEPROM

1. FEATURES

- Detection of hydrogen levels up to 100% LEL with 0.25 % resolution in air
- No sensitivity against typical catalyst poisons such as volatile siloxanes and carbon monoxide
- Fast response and recovery times
- No humidity-induced base line drift
- Applicable in relative humidity (rh) between 0 % to 100 %
- Linear output up to 100 % LEL
- On-chip Pt1000 element and heater
- Industrial temperature range from -40 °C to +85 °C
- On-board digital temperature sensor and EEPROM with I2C®bus onnectivity

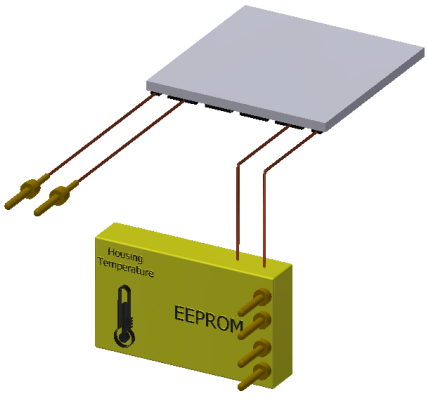
2. APPLICATION

- Hydrogen detection

3. DESCRIPTION

H2-CCT I2C is a calorimetric isothermally operated hydrogen sensor with a single catalytically highly active and siloxane-resistant sensor element. The operation principle has been qualified for high-pressure application.

4. SIMPLIFIED SCHEMATIC



* Status: Preview