

SY-PT Series

Pressure Temperature sensor



FEATURES

- Analog Voltage Output
- Absolute Pressure
- Integrated Sensor for Fuel Cell

APPLICATIONS

Industrial

- Fuel Cell system (Drone)
- Thermal management System (Coolant)

Automotive

- Fuel Cell system
- Thermal management System (Coolant)

PRODUCT SUMMARY

The **SY-PT** is a compact integrated sensor of measuring pressure and temperature at once by applying absolute pressure element & NTC Thermistor. It can be applied to lightweight hydrogen fuel cell drones for long-distance flights.

Maintaining a precise pressure and temperature reading in fuel cell is critical for its efficiency, endurance, and safety. The **SY-PT** is designed to measure both the fuel cell stack and thermal management coolant system. Also, it is optimized to function in environments with pressure and temperature range during fuel cell operation.

PRODUCT SPECIFICATION

Detection range	0.2 ~ 3.0 bar
Accuracy	± 1.8 %FS
Supply Voltage	5 V DC
Output Voltage	0.4 ~4.65 V
Current Consumption	12 mA
Weight	15g

NTC Resistance (@25°C)	10 kΩ ± 1%
NTC B (25/85)	3,435 K ± 1%
Temperature Response time	3.5 Sec (25/85)
Measuring Temperature	- 40 °C ~ 120 °C
Operation Temperature	- 40 °C ~ 100 °C
Storage Temperature	- 40 °C ~ 100 °C

PRODUCT DIMENTION

