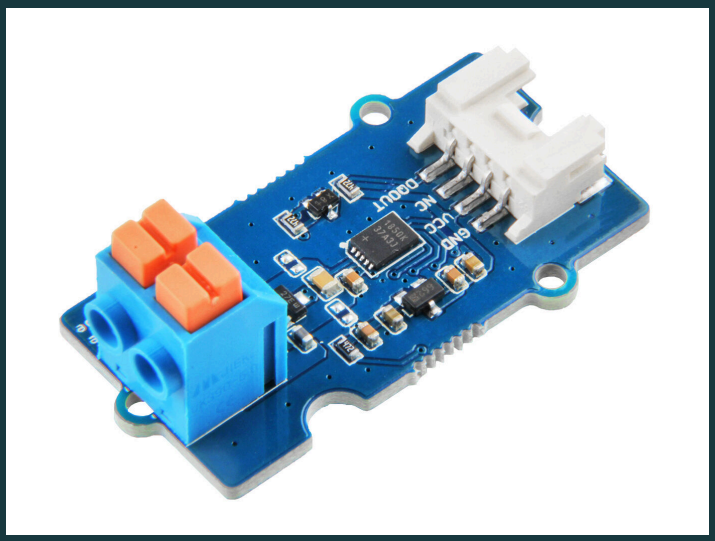
seeed studio

INDUSTRIAL PRODUCT DATASHEET

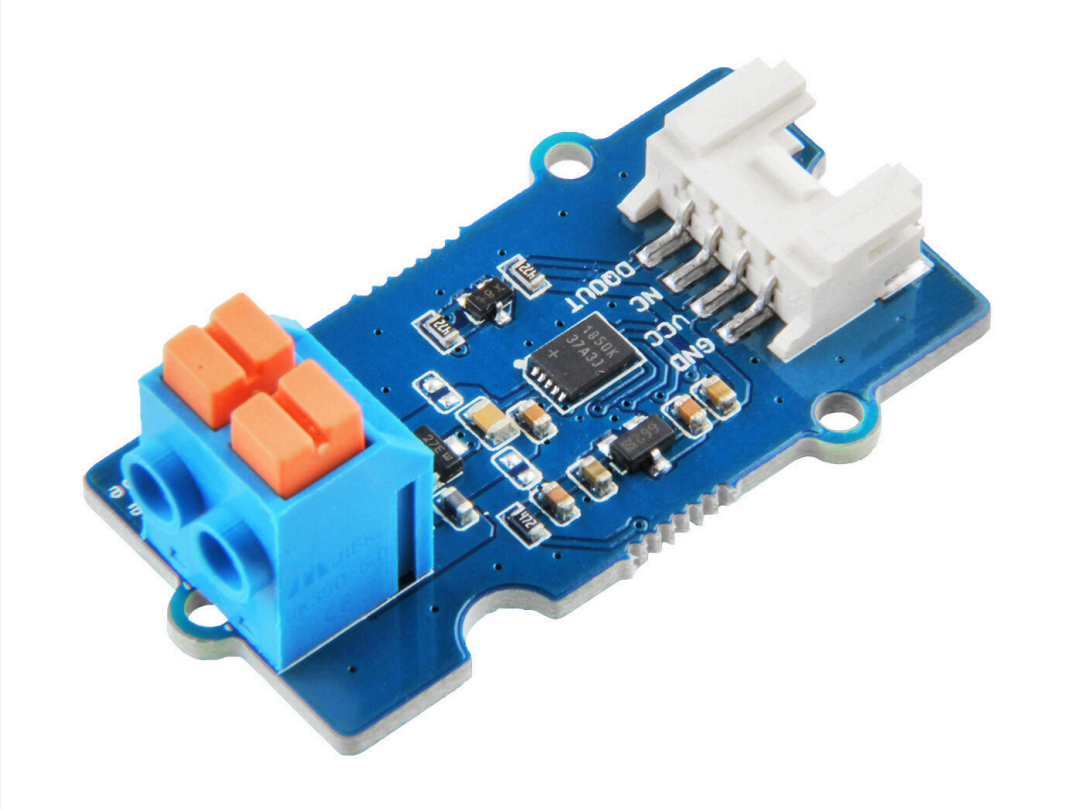
Grove - 1-Wire Thermocouple Amplifier (MAX31850K)

The Grove - 1-Wire Thermocouple Amplifier (MAX31850K) is a thermocouple-to-digital converter with 14-bit resolution and cold-junction compensation.

SKU	UPDATED	PRICE
101020555	2026-11-11 08:02:24	$17.50(Excl. VAT)



Overview



The Grove - 1-Wire Thermocouple Amplifier (MAX31850K) is a thermocouple-to-digital converter with 14-bit resolution and cold-junction compensation. It can measure the values of temperature from -50°C to 600°C.

Key Features

01 **Integrated Cold-Junction Compensation**

02 **Wide Conversion Range**

allow readings from -270℃ to +1768℃

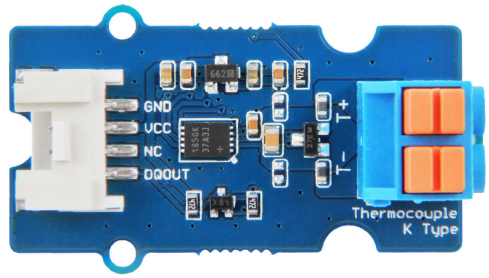
03 **14-Bit, 0.25℃ Resolution**

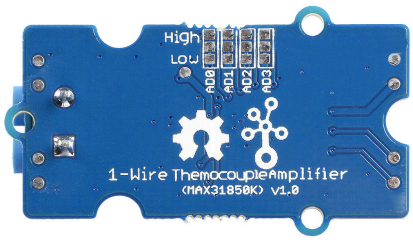
04 **Will not work with any other kind of thermocouple except K type**

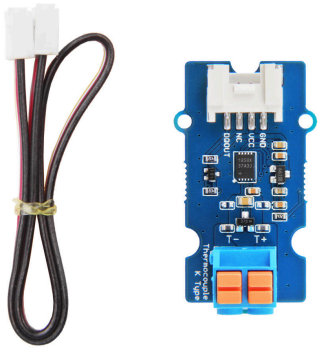
05 **Detects Thermocouple Shorts to GND or VDD**

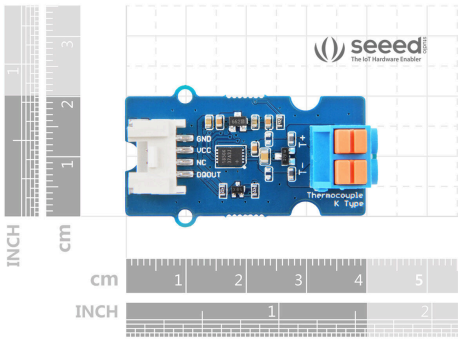
06 **Detects Open Thermocouple**

Product Gallery









Applications

- Medical
- Appliances
- Industrial
- HVAC(Heating, Ventilation and Air Conditioning)

Resource Links

- https://www.seeedstudio.com/Grove-1-Wire-Thermocouple-Amplifier-MAX31850K.html
- Grove - 1-Wire Thermocouple Amplifier eagle files
- Seeed_MAX31850K Library
- Datasheet of MAX31850

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com