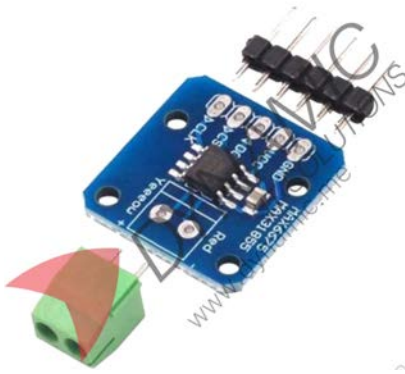


K Type Thermocouple Breakout Board MAX31855

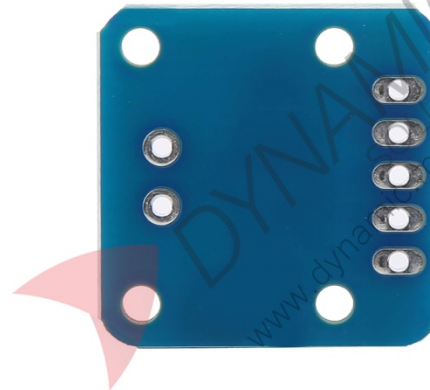
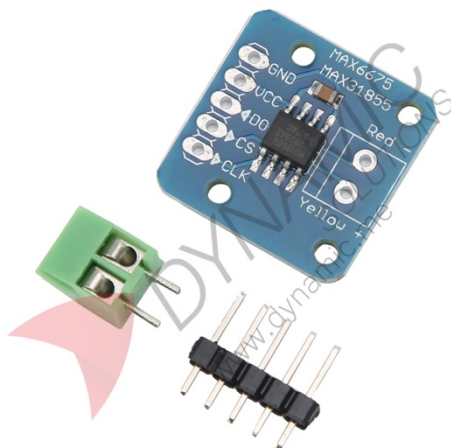


Features:

The K Type Thermocouple Breakout Board based on the MAX31855 chip simplifies precise temperature sensing over a wide range from -200°C to +1350°C. It integrates a 14-bit ADC with cold-junction compensation and provides SPI digital output, eliminating analog conversion errors. The module operates on 3–5V logic and can be connected to any microcontroller through SPI pins. It supports any K type thermocouple for industrial process control, furnace monitoring, or scientific applications.

Specifications	
Model	MAX31855 Breakout
Sensor Type	K Type Thermocouple Interface
Interface	SPI
Measurement Range	-200°C to +1350°C
Input Voltage	3V–5V DC
Resolution	14-bit (0.25°C)
Accuracy	±2°C to ±6°C (K type thermocouple dependent)
Cold Junction Compensation	Built-in
Internal Temperature Reading	Supported
Power Supply Logic	3V–5V compatible
Output Type	Digital SPI data
Usage	Industrial, laboratory, high-temperature monitoring systems

Product Pictures:



Pinouts:

Pin Name	Type	Description
VCC	Power	Connect to 3V–5V power supply
GND	Ground	Connect to system ground
DO	Data Out	SPI data output from sensor
CS	Chip Select	Select pin for SPI communication
CLK	Clock	SPI clock input

Product Dimensions:

