

Thermocouple Conditioner

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Image 1: Thermocouple conditioner

- Supports Type K thermocouple
- Output voltage @ 1300°C: 5 V

General

Thermocouple Conditioner is a product intended to amplify the signal of a K-type thermocouple sensor (Cromel / Alumel), transforming this signal into a voltage standard (0-5v). The output signal of a thermocouple is in the order of millivolts, and therefore needs to be amplified to suit the standards of indicators or data acquisition equipment. In addition, it must also compensate the ambient temperature, since the sensor only measures the thermal difference between its two joints (reference gasket and measuring gasket).

Technical Specifications

Electrical characteristics

Supply voltage: 7,5 – 20 V

Consumption: <10 mA

Output: 0°C – 0 V; 1300°C – 5 V

Support for type k thermocouple

Mechanical characteristics

Temperature operation range: -40 up to 80°C

Dimensions: 15 x 25 x 50 mm

Weight: 90g

4-way MIKE connector

Cable length: 30 cm

"MINI" connector for thermocouple

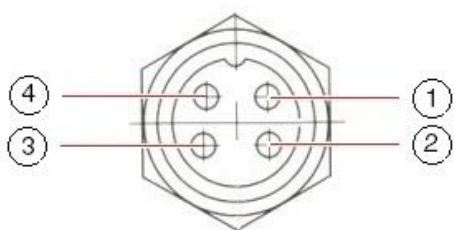


Image 2: 4-way MIKE connector

Pin	Function
1	12V
2	GND
3	Output signal
4	-