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EZO Carrier Click - RTD

PID: MIKROE-6012

EZO Carrier Click - RTD is a compact add-on board engineered to provide temperature readings across a broad range of temperatures. This board features the EZO-RTD™, an embedded temperature circuit board from Atlas Scientific. The EZO-RTD™ is a small black additional board that comes together with the carrier board and allows you to read the temperature values from -126.000°C to +1,254°C with a resolution of 0.001°C. The EZO-RTD™ allows readings in a maximum of one reading per second. This Click board™ is ideal for high accuracy for precise temperature readings from any class of 2, 3, or 4-wire platinum RTD probes. It is compatible with any class of 2, 3, or 4-wire platinum RTD probes, such as the PT-1000 Class-B platinum RTD temperature probe from Atlas Scientific.

EZO Carrier Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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Specifications

Type	Environmental,Measurements
Applications	Can be used for high accuracy for precise temperature readings from any class of 2, 3, or 4-wire platinum RTD probes
On-board modules	EZO-RTD™ - embedded temperature circuit board from Atlas Scientific
Key Features	High stability and accuracy, easy-to-use data protocol, simple command structure, flexible calibration protocol, works with any class of 2, 3, or 4-wire platinum RTD probes, noise immunity, completely isolated data and power supply lines, and more
Interface	I2C,UART
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

SI8400 datasheet

EZO Carrier Click - RTD 2D and 3D files

EZO-RTD datasheet

EZO Carrier click schematic

EZO Carrier Click - RTD example on Libstock