

EZO Carrier Click - Conductivity



PID: MIKROE-6011

EZO Carrier Click - Conductivity is a compact add-on board for measuring conductivity, salinity, and Total Dissolved Solids (TDS) in various applications from chemical production to hydroponics. This board features the EZO-EC™, an ISO 7888 compliant embedded conductivity circuit board from Atlas Scientific. The EZO-EC™ is a small green additional board that comes together with the carrier board and allows you to read a conductivity in a range of 0.07 to over 500,000µS/cm. Still, it can also accurately measure salinity up to 42 PSU (ppt), TDS as ppm, and the specific gravity of seawater between 1.00 and 1.300. This Click board™ is ideal for reliable water chemistry measurements, supporting probes ranging from K 0.01 to K 10.2 of any brand, such as the Conductivity Probe K 1.0 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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Environmental,Measurements
Applications	Can be used or measuring conductivity, salinity, and Total Dissolved Solids (TDS) in various applications from chemical production to hydroponics
On-board modules	EZO-EC™ - embedded conductivity circuit board from Atlas Scientific
Key Features	ISO 7888 compliant, high stability and accuracy, easy-to-use data protocol, simple command structure, works with any off-the-shelf K probe, 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

[EZO Carrier Click - Conductivity example on Libstock](#)
[EZO Carrier Click - Conductivity 2D and 3D files](#)
[SI8400 datasheet](#)
[EZO-EC datasheet](#)
[EZO Carrier Click - conductivity schematic](#)

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