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pH 2 Click





PID: MIKROE-5596

pH 2 Click is a compact add-on board used to determine the alkalinity or acidity of a sample. This board features the MCP607, a low-bias current Op Amp from Microchip, performing level shifting and high-input impedance buffering in a single-supply pH-electrode circuit. This board measures hydrogen ion activity and produces an electrical potential/voltage, which can be further processed in analog or digital form. In addition to LED signaling, which is under the complete control of the user, there is also the possibility of temperature compensation by connecting an additional thermometer to the board. This Click board™ is suitable for measuring pH in various applications, including water treatment, chemical processing, medical instrumentation, and environmental test systems.

pH 2 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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.







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Specifications

Туре	Environmental
Applications	Can be used for measuring pH in various applications, including water treatment, chemical processing, medical instrumentation, and environmental test systems
On-board modules	MCP607 - low-bias current dual operational amplifier from Microchip
Key Features	High stability and accuracy, flexible calibration, works with any off-the-shelf pH probe, temperature compensation with additional thermometer, selectable analog or digital output, user-configurable LED indicators, and more
Interface	Analog,I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

ClickID

Downloads

pH 2 click example on Libstock

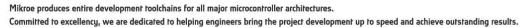
MCP607 datasheet

DS18B20 datasheet

MCP3221 datasheet

pH 2 click 2D and 3D files

pH 2 click schematic







health and safety management system.