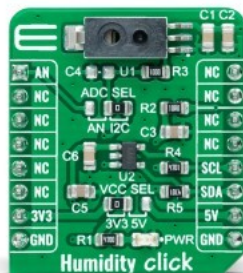


Humidity Click



PID: MIKROE-4878

Humidity Click is a compact add-on board used to sense the amount of water vapor in the air. This board features the HIH-5030, an analog output relative humidity sensor from Honeywell Sensing and Productivity Solutions. The HIH-5031 is a covered, condensation-resistant, integrated circuit humidity sensor that is factory-fitted with a hydrophobic filter allowing usage in many condensing environments. The RH sensor uses a laser-trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning, providing enhanced stability, accuracy, and response time over the entire humidity range of 0%RH to 100%RH. However, the choice of signal processing is up to the user; more precisely, the user can process the output signal in analog or digital form. This Click board™ is suitable for industrial, medical, and commercial applications.

Humidity 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.



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	Temperature & humidity
Applications	Can be used for industrial, medical, and commercial applications
On-board modules	HIH-5030 - high-performance analog-output relative humidity sensor from Honeywell Sensing and Productivity Solutions
Key Features	Low power consumption, high precision and performance, enhanced accuracy and response time over the entire humidity range, chemically resistant, possibility of signal processing in analog and digital form, and more
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[MCP3221 datasheet](#)

[HIH-5030-001 datasheet](#)

[Humidity click schematic](#)

[Humidity click 2D and 3D files](#)

[Humidity click example on Libstock](#)

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