MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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.

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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