Manuals+ — User Manuals Simplified.
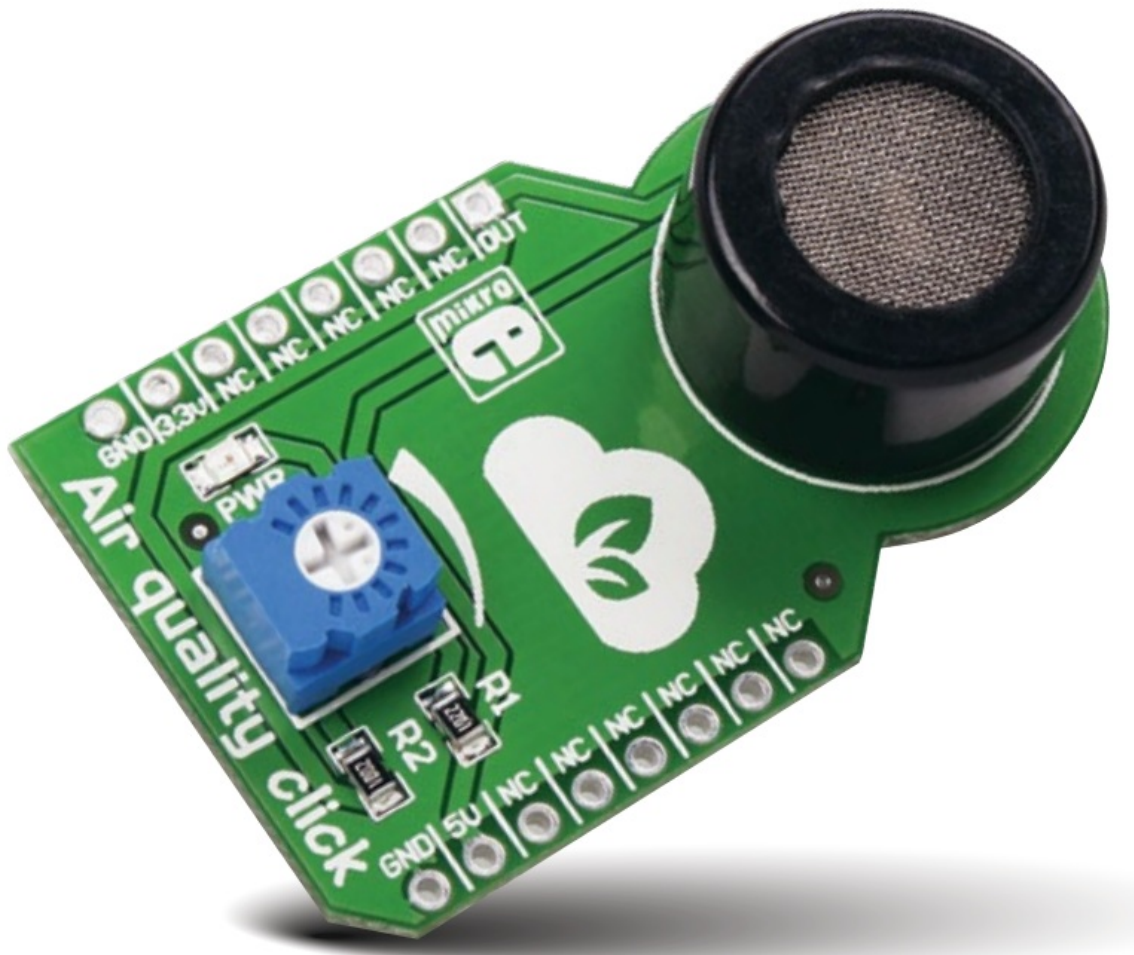

MikroE Air Quality Click High Sensitivity Sensor User Manual

Air Quality Click High Sensitivity Sensor
User Manual

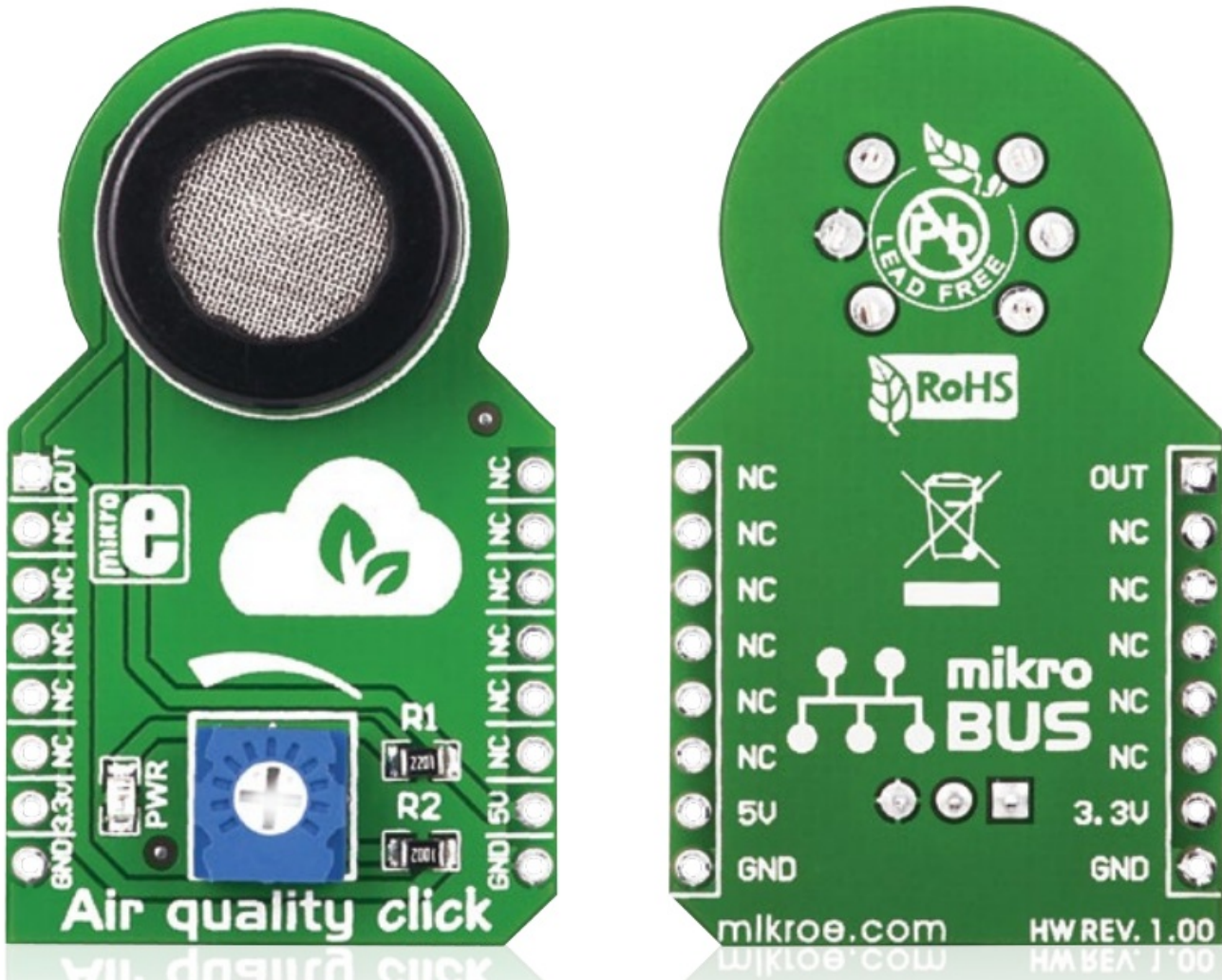**Air quality click**

Contents

Introduction

Air quality click™ is a simple solution for adding a high sensitivity sensor for detecting a variety of gases that impact air quality in homes and offices. The board features an MQ-135 sensor, a calibration potentiometer, a mikroBUS™ host socket, two jumpers and a power indicator LED. Air quality click™ communicates with the target board through mikroBUS™ AN (OUT) line. Air quality click™ is designed to use a 5V power supply only.
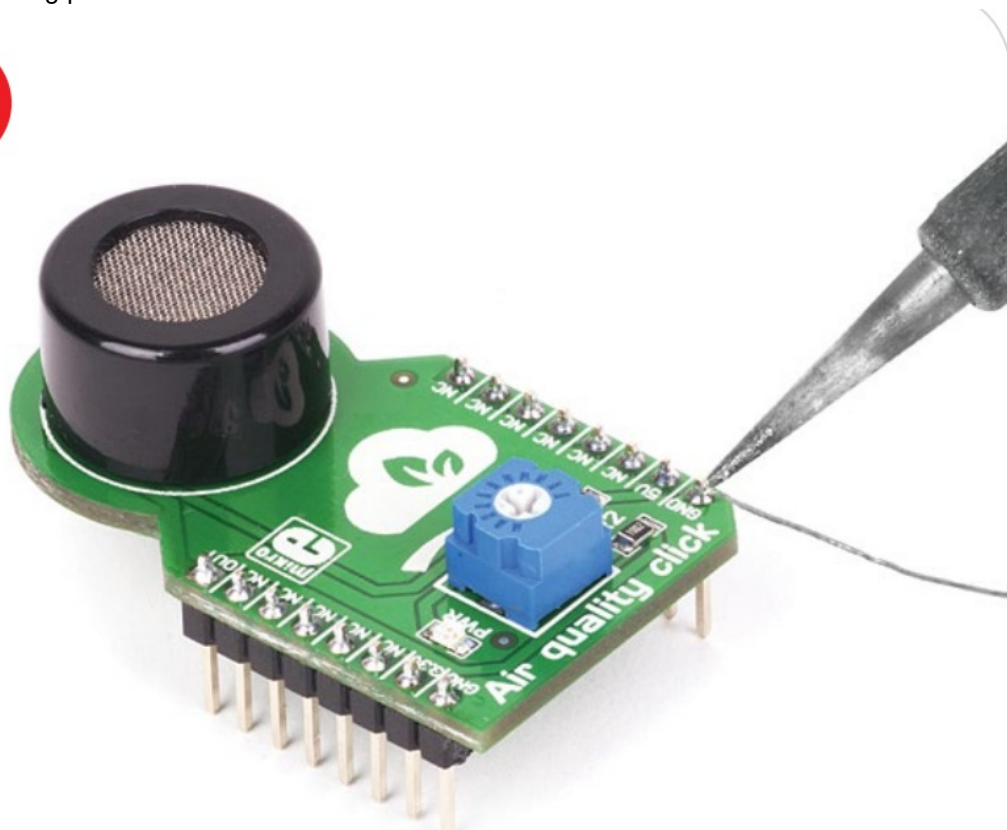
Soldering the headers
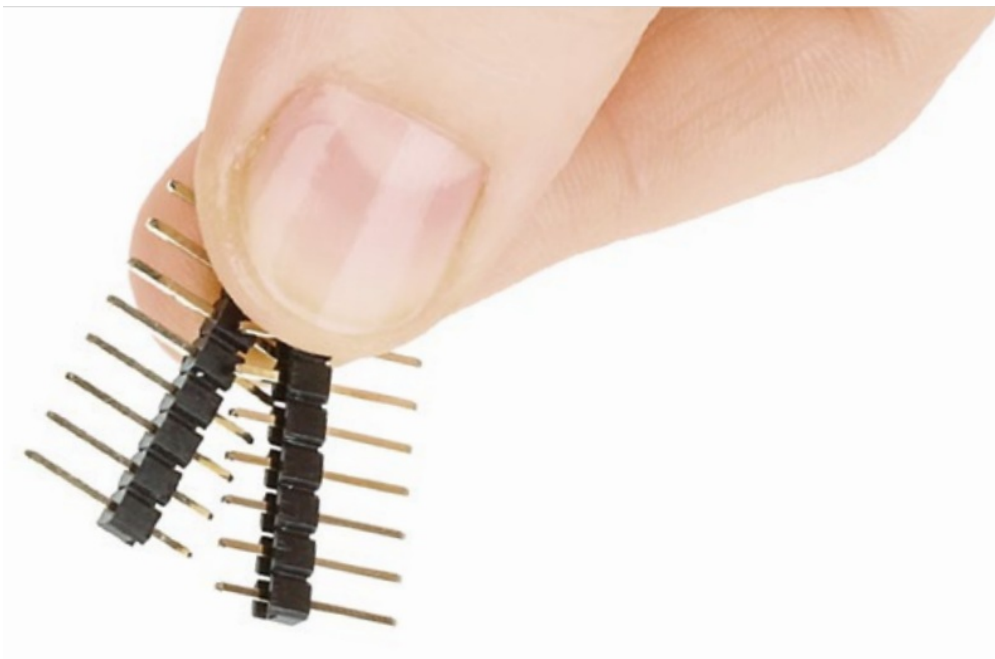
Before using your clickTM board, make sure to solder 1×8 male headers to both left and right sides of the board. Two 1×8 male headers are included with the board in the package.
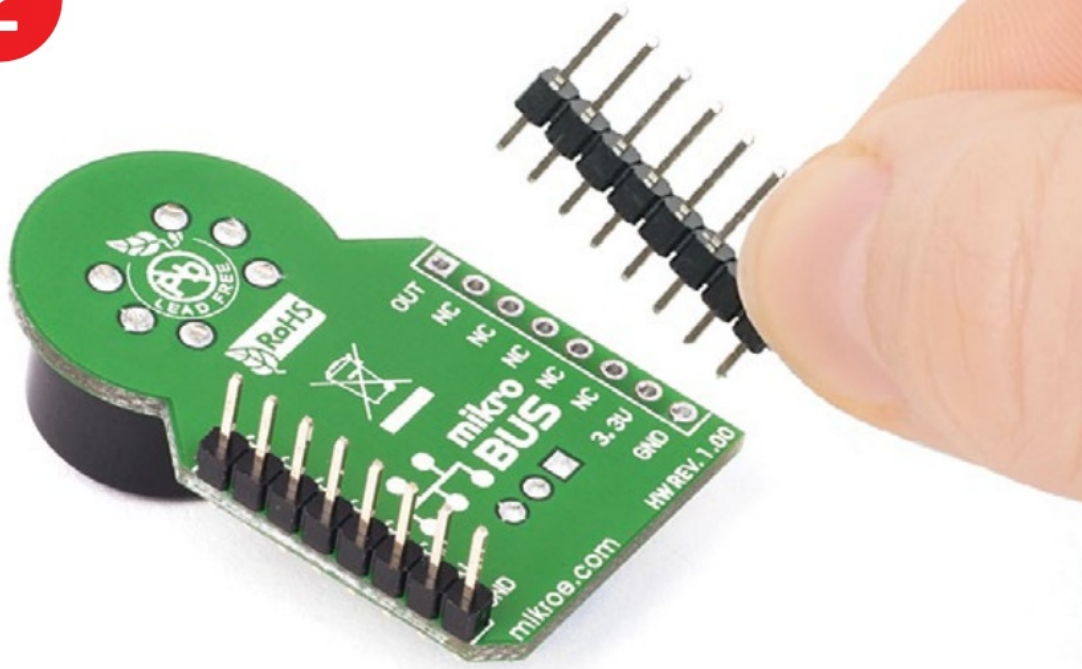
Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.
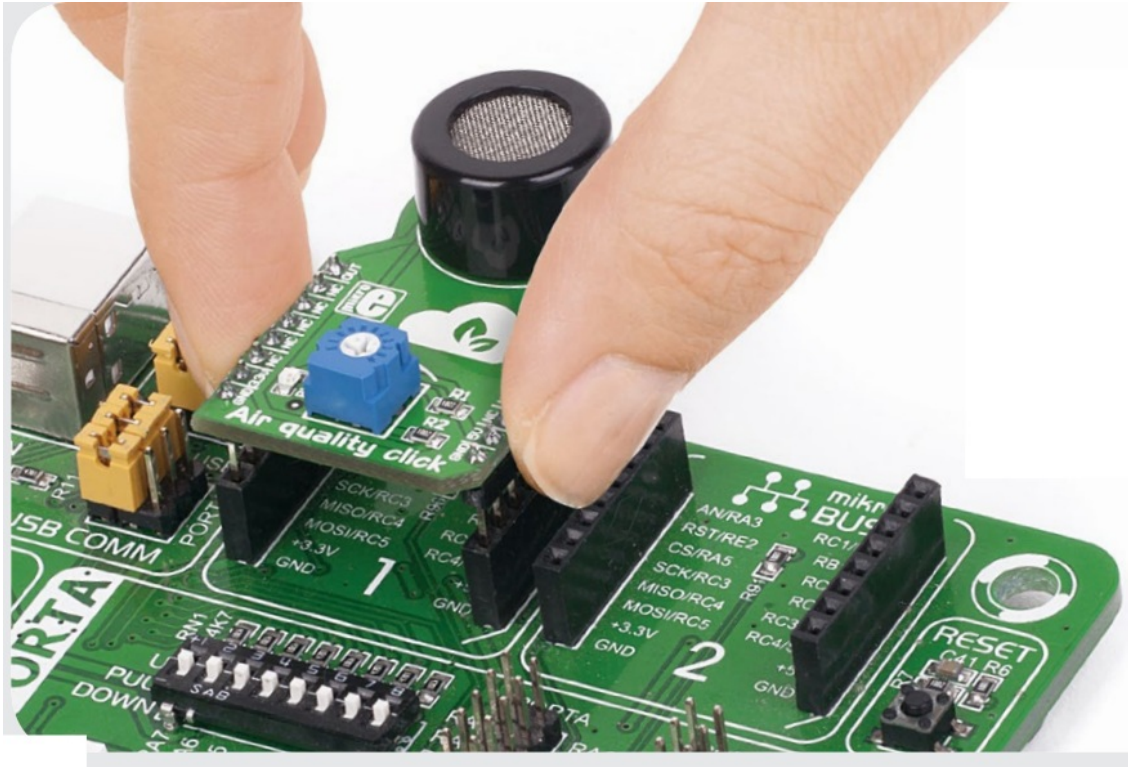

Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.
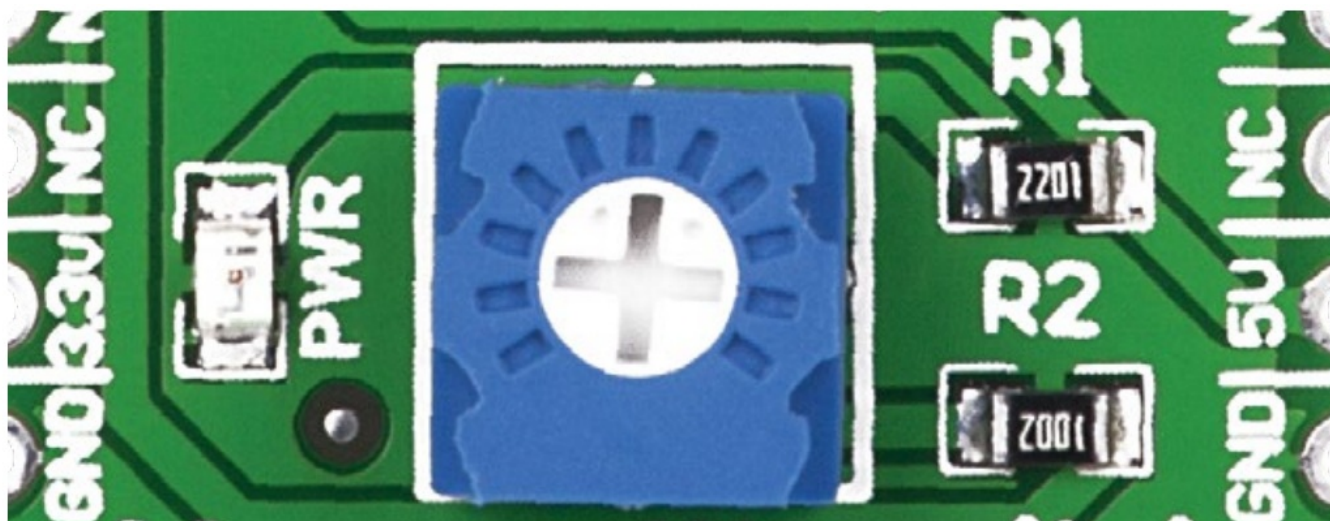
Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUSTM socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUSTM socket. If all the pins are aligned correctly, push the board all the way into the socket.

Essential features

Air quality clickTM is suitable for detecting ammonia (NH3), nitrogen oxides (NOx) benzene, smoke, CO2, and other harmful or poisonous gases that impact air quality. The MQ-135 sensor unit has a sensor layer made of tin dioxide (SnO2), an inorganic compound that has lower conductivity in clean air than when polluting gases are present. Air quality clickTM also contains a potentiometer that lets you adjust the sensor for the environment you'll be using it.

5. Air quality click™ board schematic

6. Calibration potentiometer

Code examples

Once you have done all the necessary preparations, it's time to get your click ™ to board up and running. We have provided examples for mikroC ™, mikroBasic ™ and mikroPascal ™ compilers on our Livestock website. Just download them and you are ready to start.

Support

MikroElektronika offers free tech support (**www.mikroe.com/support**) until the end of the product's lifetime, so if

something goes wrong, we're ready and willing to help!

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Documents / Resources

MikroE Air Quality Click High Sensitivity Sensor [pdf] User Manual
Air Quality Click, High Sensitivity Sensor, Air Quality Click High Sensitivity Sensor

References

- ☰ **MikroElektronika support is here to help - MIKROE**

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