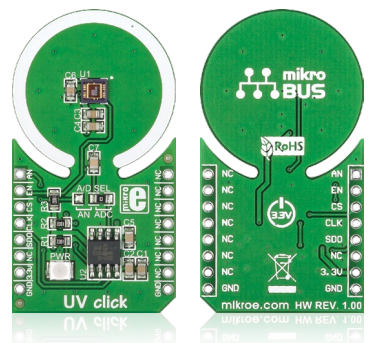


UV click™

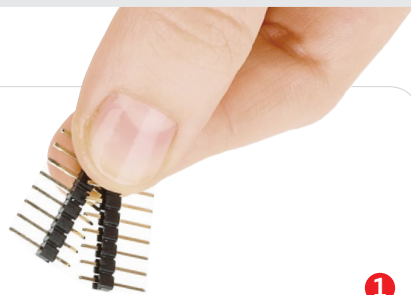
## 1. Introduction



UV click™ is a simple solution for adding an ultraviolet light sensor to your design. It carries the ML8511 IC UV sensor with analog voltage output and a MCP3201 ADC. UV click™ can output either analog or digital signals (determined by the position of the A/D SEL jumper). Therefore, it communicates with the target board either through **mikroBUS™** SPI (CS, SCK, MISO), or AN lines; additionally, the sensor can be enabled or disabled from the MCU through the RST (EN) pin. UV click™ uses a 3.3V power supply.

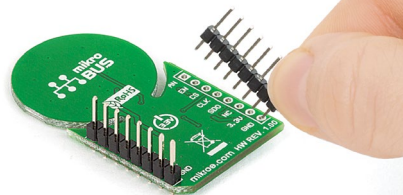
## 2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



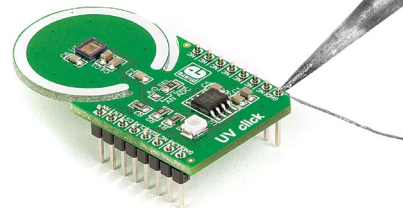
1

2

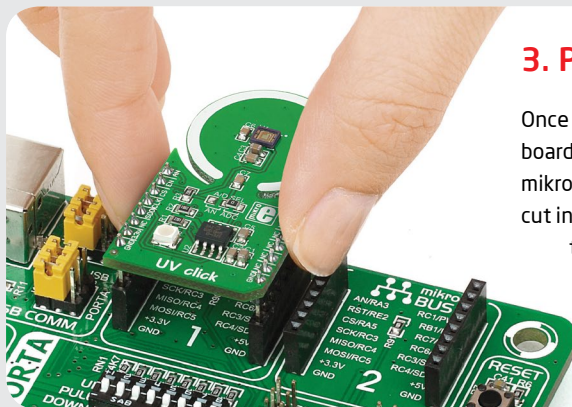


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3

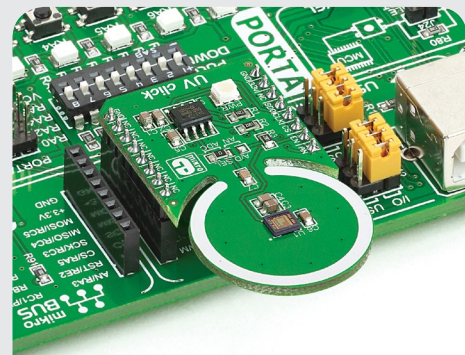


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



## 3. Plugging the board in

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



## 4. Essential features

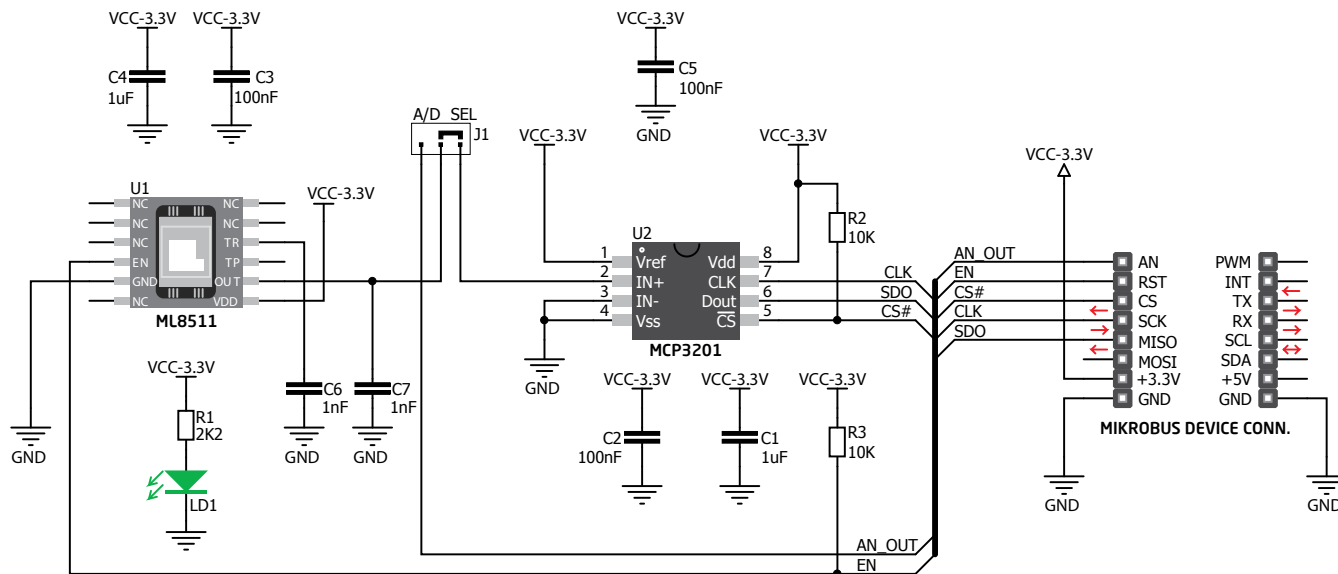
With UV click™, you can measure ultraviolet light intensity both indoors and outdoors. The photodiode on the ML8511 IC is sensitive to UV-A (365-315 nm) and UV-B (315-280 nm) rays. You can use UV click™ to design devices that protect the user against excessive sun exposure, or for industrial purposes where UV light is used for sterilization. When using UV click™, be careful not to rub or press the surface of the ML8511 IC.

click™  
BOARD  
[www.mikroe.com](http://www.mikroe.com)

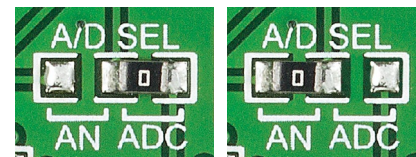
UV click™ manual  
ver. 1.00



## 5. UV click™ board schematic



## 6. A/D SEL jumpers



To switch between analog and digital output options, resolder the onboard **J1** SMD jumper (zero-ohm resistor). By default, it's soldered in the ADC position.

## 7. Code examples

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



## 8. Support

MikroElektronika offers **free tech support** ([www.mikroe.com/support](http://www.mikroe.com/support)) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

# AMEYA360

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