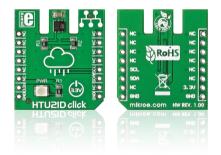


HTU21D click

1. Introduction



HTU21D click[™] carries a high-precision, easy-to-use relative humidity sensor with temperature output. The sensor is plug and play, requiring no calibration to use. The measurement range of HTU21D click[™] is from 0 to 100 percents of relative humidity, and -40 to +125 degrees of Celsius. The board communicates with the target microcontroller through mikroBUS[™] I2C lines: SCL and SDA (data). It uses a 3.3V power supply only.

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.

Turn the board upside down so that

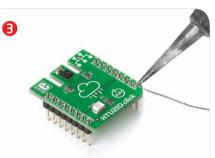
the bottom side is facing you upwards.

Place shorter pins of the header into the

appropriate soldering pads.

2





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



Since it requires no calibration and uses only 2 communication lines, HTU21D click[™] is great for quickly developing reliable environmental sensing nodes. Either for data logging (as in a weather station), or for humidity and temp. control in a HVAC system. The default resolution of the signal is set to 12-bit for relative humidity and 14-bit for temperature readings (you can change the resolution in the range of 8-12 bits for humidity, and 12-14 bits for temperature.)

click^m

BOARE

www.mikroe.com

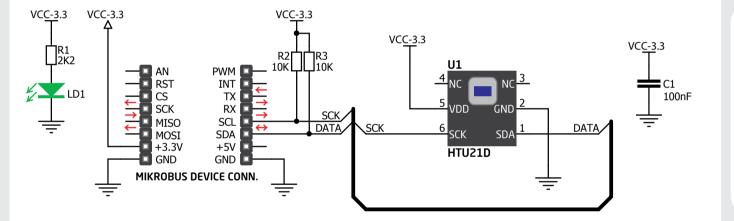
HTU21D click manual[®] v100



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.

5. HTU21D clickTM board schematic



6. Tip on sensor placement



Relative humidity depends on temperature. To get the most accurate measurements from HTU21D click[™], it's important to keep

the sensor at the same temperature as the environment in which you want to measure the humidity.

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) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!



MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice. Copyright © 2014 MikroElektronika. All rights reserved.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Temperature Sensor Development Tools category:

Click to view products by MikroElektronika manufacturer:

Other Similar products are found below :

 EVAL-ADT75EBZ
 T20321SS2B
 T2016P2CRRXC4S2
 DC2507A
 MAX1617AEVKIT
 BB-WSK-REF-2
 MCP9800DM-TS1
 TMPSNSRD

 RTD2
 MIKROE-2273
 MIKROE-2539
 MIKROE-2554
 DPP201Z000
 DPP901Z000
 1899
 EV-BUNCH-WSN-2Z
 DPP904R000
 KIT0021

 SEN0206
 SEN0227
 MIKROE-2769
 SEN-13314
 3263
 SEN0137
 3328
 DC1785B
 MHUM-01
 3538
 DPP201G000
 DFR0066
 WPP100B009

 393
 SDT310LTC100A3850
 SI7005EVB-UDP-M3L1
 2857
 1782
 2652
 269
 3245
 3622
 3648
 3721
 4089
 4101
 4369
 4566
 4636
 4808

 4821
 AS6200C-WL_EK_AB
 AS6200-WL_DK_ST
 ST
 ST