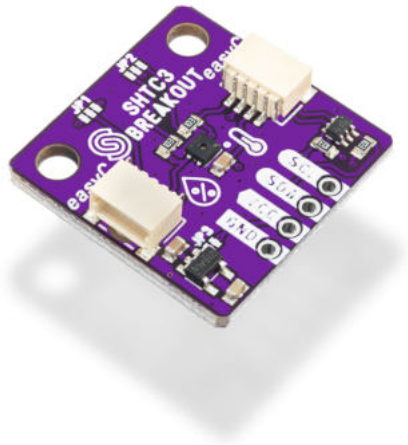
TEMPERATURE AND HUMIDITY SENSOR SHTC3 BREAKOUT



Weight 5 g

DESCRIPTION

Want to keep track of both the humidity and temperature in your room? Or maybe in the greenhouse to protect your crops? The SHTC3 breakout board is the solution you're looking for! The digital sensor measures the changes in humidity and temperature very precisely. Since it's very accurate and the temperature range is wide, it is a go-to sensor if you want precise climate information.

The breakout board uses the I2C communication protocol. Thus, it has two easyC ports so no soldering, nor distinguishing between SDA and SCL is required. The hardware-defined I2C address is 0x70. The design is 3.3V ready with an onboard regulator for 5V. The board's standard current consumption is low, only 430 µA.

Product usage tips:

If you encounter errors when using the breakout board, see if it's connected properly. First, look at the pinout on the board and your microcontroller. If everything seems OK, look at the connections on the breakout board. If all the wiring is correct, make sure that the breakout board's I2C address is right. It should be 0x70. Everything as it should be so far? Go through your code again. There might be some bugs that are stopping things from working as expected.

The SHTC3 breakout board works wonderfully in combination with Dasduino Core and 16x2 easyC LCD. You can display temperature in one row and humidity in the other. Due to the easyC connections on all three, hooking all the devices together is as easy as it gets. The SHTC3 breakout board has two mounting holes so it can be attached to the project and won't budge. The pins provided can be soldered if you don't want to use the easyC ports.

To keep the longevity of the sensor, keep track of the current going through the circuit. Allowing an

excessive amount of current to flow through it may cause the sensor to fail. It is not impact-resistant. When dropped from a high distance or at an odd angle, it can break beyond repair.

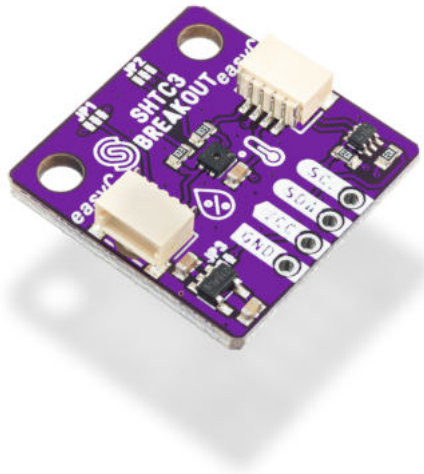
FEATURES

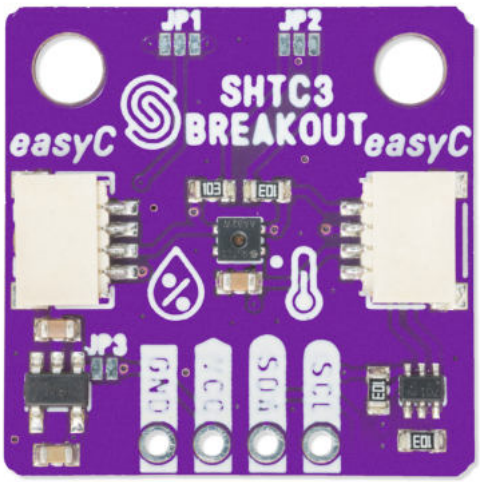
- Standard current consumption: 430 µA
- Standby current consumption: 45 µA
- Logic voltage level: 3.3V
- Operating voltage: 3.3 (onboard regulator for 5V)
- Temperature measurement span: -40°C to 125°C; ± 0.2°C
- Relative humidity measurement span: 0% to 100%; ± 2% RH
- Communication: I2C (address: 0x70)
- Connectors: easyC x2
- Mounting holes: 2
- Dimensions: 22 x 22 mm / 0.9 x 0.9 inch

USEFUL LINKS

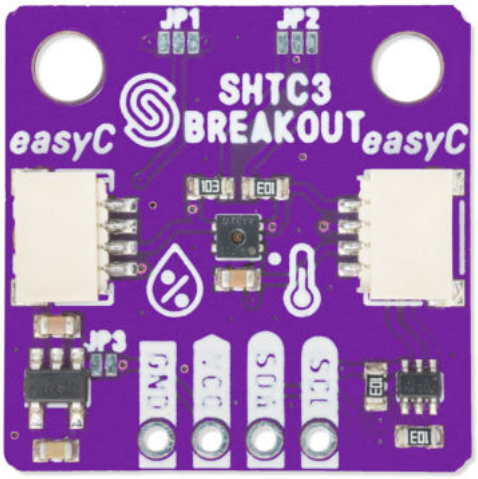
- Arduino library
- Datasheet

OTHER IMAGES






Soldered
I2C ADDR 0X70
JP4


JP1
JP2
SHTC3
BREAKOUT
easyC
easyC
JP3
GND
VCC
SDA
SCL

Weight	5 g