

Kernel driver shtc1

Supported chips:

- Sensirion SHTC1
Prefix: 'shtc1'
Addresses scanned: none
Datasheet: https://www.sensirion.com/file/datasheet_shtc1
- Sensirion SHTW1
Prefix: 'shtw1'
Addresses scanned: none
Datasheet: https://www.sensirion.com/file/datasheet_shtw1
- Sensirion SHTC3
Prefix: 'shtc3'
Addresses scanned: none
Datasheet: https://www.sensirion.com/file/datasheet_shtc3

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Description

This driver implements support for the Sensirion SHTC1, SHTW1, and SHTC3 chips, a humidity and temperature sensor. Temperature is measured in degrees celsius, relative humidity is expressed as a percentage.

The device communicates with the I2C protocol. All sensors are set to I2C address 0x70. See Documentation/i2c/instantiating-devices.rst for methods to instantiate the device.

There are two options configurable by means of shtc1_platform_data:

1. blocking (pull the I2C clock line down while performing the measurement) or non-blocking mode. Blocking mode will guarantee the fastest result but the I2C bus will be busy during that time. By default, non-blocking mode is used. Make sure clock-stretching works properly on your device if you want to use blocking mode.
2. high or low accuracy. High accuracy is used by default and using it is strongly recommended.

sysfs-Interface

temp1_input

- temperature input

humidity1_input

- humidity input