

# Kernel driver tmp102

Supported chips:

- Texas Instruments TMP102

Prefix: 'tmp102'

Addresses scanned: none

Datasheet: <http://focus.ti.com/docs/prod/folders/print/tmp102.html>

Author:

Steven King <[sfking@fdwdc.com](mailto:sfking@fdwdc.com)>

## Description

The Texas Instruments TMP102 implements one temperature sensor. Limits can be set through the Overtemperature Shutdown register and Hysteresis register. The sensor is accurate to 0.5 degree over the range of -25 to +85 C, and to 1.0 degree from -40 to +125 C. Resolution of the sensor is 0.0625 degree. The operating temperature has a minimum of -55 C and a maximum of +150 C.

The TMP102 has a programmable update rate that can select between 8, 4, 1, and 0.5 Hz. (Currently the driver only supports the default of 4 Hz).

The driver provides the common sysfs-interface for temperatures (see Documentation/hwmon/sysfs-interface.rst under Temperatures).