

# Kernel driver ina238

Supported chips:

- Texas Instruments INA238

Prefix: 'ina238'

Addresses: I2C 0x40 - 0x4f

Datasheet:

<https://www.ti.com/lit/gpn/ina238>

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## Description

The INA238 is a current shunt, power and temperature monitor with an I2C interface. It includes a number of programmable functions including alerts, conversion rate, sample averaging and selectable shunt voltage accuracy.

The shunt value in micro-ohms can be set via platform data or device tree at compile-time or via the `shunt_resistor` attribute in sysfs at run-time. Please refer to the Documentation/devicetree/bindings/hwmon/ti,ina2xx.yaml for bindings if the device tree is used.

## Sysfs entries

in0_input	Shunt voltage (mV)
in0_min	Minimum shunt voltage threshold (mV)
in0_min_alarm	Minimum shunt voltage alarm
in0_max	Maximum shunt voltage threshold (mV)
in0_max_alarm	Maximum shunt voltage alarm
in1_input	Bus voltage (mV)
in1_min	Minimum bus voltage threshold (mV)
in1_min_alarm	Minimum shunt voltage alarm
in1_max	Maximum bus voltage threshold (mV)
in1_max_alarm	Maximum shunt voltage alarm
power1_input	Power measurement (uW)
power1_max	Maximum power threshold (uW)
power1_max_alarm	Maximum power alarm
curr1_input	Current measurement (mA)
temp1_input	Die temperature measurement (mC)
temp1_max	Maximum die temperature threshold (mC)
temp1_max_alarm	Maximum die temperature alarm