

List of commands (public functions) of the ADS1115_WE library

Function	Parameters	what it does
<code>void reset()</code>	none	Resets the ADS1115. Be careful this function uses the I2C general call reset. Therefore all devices listening to general calls will be resetted.
<code>bool init ()</code>	none	Sets the Configuration Register to default values. Returns false if the ADS1115 is not connected
<code>void setAlertPinMode(mode)</code>	ADS1115_ASSERT_AFTER_X with X = 1, 2, 4; or: ADS1115_DISABLE_ALERT (default)	When alert limits are set, this function defines after how many out of range samples the alarm pin will assert. When the alert pin is set to conversion ready alert, you also need call this function with any parameter except ADS1115_DISABLE_ALERT. Which one you choose exactly doesn't matter.
<code>void setAlertLatch(mode)</code>	ADS1115_LATCH_DISABLED ADS1115_LATCH_ENABLED	When the alert latch is enabled, the alert pin will be active until you call unlatchAlertPin or until you call getResult_V / getResult_mV. When disabled, the alert pin will be deactivated, if the results are within limits.
<code>void setAlertPol(polarity)</code>	ADS1115_ACTIVE_HIGH ADS1115_ACTIVE_LOW (default)	The alert pin can be set active-high or active-low
<code>void setAlertModeAndLimit_V(mode, upper limit, lower limit)</code>	mode: ADS1115_MAX_LIMIT ADS1115_WINDOW limits: voltage [V]	In max limit mode the alert pin will be active when the max limit is exceeded. The pin will be deactivated again, when the the results are below the lower limit (if latch is not enabled) In the window mode the alert pin will be active when result are out of the window limits. It will be deactivated, when results are in the window limits again (if latch is not enabled).
<code>void setConvRate(rate)</code>	ADS1115_X_SPS with X = 8, 16, 32, 64, 128, 250, 475, 860	Sets the conversion rate in number of samples per second (SPS).
<code>void setMeasureMode(mode)</code>	ADS1115_CONTINUOUS ADS1115_SINGLE	Sets continous or single-shot mode. In single-shot mode the measurements need to be triggered manually (startSingleMeasurement). After a single-shot measurement the device goes into power-down mode.
<code>void setVoltageRange_mV(range)</code>	ADS1115_RANGE_X with X = 6144, 4096, 2048, 1024, 0512, 0256	Sets voltage range in mV and therefore the gain amplifier. The range is always from -X to +X. Voltages applied to the input pins shall not exceed VCC + 0.3 Volt. If you change the range the compare registers will be updated automatically.
<code>void setCompareChannels()</code>	ADS1115_COMP_X with X = 0_1, 0_2, 1_3, 2_3, 0_GND, 1_GND, 2_GND, 3_GND	Sets the channels to be compared channels to be compared to GND
<code>bool isBusy()</code>	none	Reads the Conversion Ready flag. Works only in single-shot mode.
<code>void startSingleMeasurement()</code>	none	Triggers a single-shot measurement.
<code>void getResult_V() / getResult_mV()</code>	none	Returns the result currently available in the conversion register either in Volt or Millivolt. It does not wait for the current conversion to be completed.
<code>void setAlertPinToConversionReady()</code>	none	The alert pin will be active when a conversion is completed. You will also need to call the setAlertPinMode function. You can either use the alert pin for limit alerts or conversion ready alerts, not both in parallel.
<code>void unlatchAlertPin()</code>	none	When the alert latch is enabled, the alert pin will be active until you call this function or until you call getResult_V / getResult_mV.