Function	Parameters	what it does
		Resets the ADS1115. Be careful this function uses the I2C general call
void reset()	none	reset. Therefore all devices listening to general calls will be resetted.
bool init ()	none	Sets the Configuration Register to default values. Returns false if the ADS1115 is not connected
		When alert limits are set, this function defines after how many out of
void setAlertPinMode(mode)	ADS1115_ASSERT_AFTER_X	range samples the alarm pin will assert.
	with X = 1, 2, 4; or: ADS1115_DISABLE_ALERT (default)	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
	ADSTITS_DISABLE_ALERT (default)	you choose exactly doesn't matter.
void setAlertLatch(<i>mode</i>)	ADS1115_LATCH_DISABLED	When the alert latch is enabled, the alert pin will be active until you call
	ADS1115_LATCH_ENABLED	clearAlert or until you call getResult_V / getResult_mV. When disabled,
	ADS111E ACTIVE HIGH	the alert pin will be deactivated, if the results are within limits.
void setAlertPol(polarity)	ADS1115_ACTIVE_HIGH ADS1115_ACTIVE_LOW (default)	The alert pin can be set active-high or active-low
	mode:	In max limit mode the alert pin will be active when the max limit is
void setAlertModeAndLimit_V(mode, upper limit, lower limit)	ADS1115_MAX_LIMIT	exceeded. The pin will be deactivated again, when the the results are
	ADS1115_WINDOW	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
	limits: voltage [V]	window limits. It will be deactivated, when results are in the window
		limits again (if latch is not enabled).
void setConvRate(rate)	ADS1115_X_SPS with X = 8, 16, 32, 64, 128, 250, 475, 860	Sets the conversion rate in number of samples per second (SPS).
convRate getConvRate()	none	Returns the conversion rate as convRate, i.e. ADS1115_X_SPS
void setMeasureMode(mode)		Sets continuous or single-shot mode. In single-shot mode the
	ADS1115_CONTINUOUS ADS1115_SINGLE	measurements need to be triggered manually (startSingleMeasurement).
	ADSTITS_SINGLE	After a single-shot measurement the device goes into power-down mode.
void setVoltageRange_mV(range)		Sets voltage range in mV and therefore the gain amplifier. The range is
	ADS1115_RANGE_X with X = 6144, 4096, 2048, 1024,	alway from -X to +X. Voltages applied to the input pins shall not exceed VCC + 0.3 Volt.
	0512, 0256	If you change the range the compare registers will be updated
		automatically.
void setAutoRange()		Switches into the maximum range and continuous mode (if in single shot mode), measures the voltage and then switches to the smallest range in
	none	which the measured voltage is below 80% of the maximum of the range. I
		the ADS1115 was in single shot mode before it changes back again.
		You should only use this function if you expect non- or slow-changing voltages. The procedure takes several conversion times.
void setPermanentAutoRangeMode (true /false)	true / false	Sets the automatic voltage range permanantly, but the range will only be
		changed if the vmeasured value is outside 30 - 80% of the maximum value
	true / raise	of the current range. Therefore this method is faster than
	ADS1115_COMP_X	setAutoRange().
void setCompareChannels()		Sets the channels to be compared channels to be compared to GND
	1_GND, 2_GND, 3_GND	
bool isBusy()	none	Reads the Conversion Ready flag. Works only in single-shot mode.
void startSingleMeasurement()	none	Triggers a single-shot measurement.
void getResult_V() / getResult_mV()	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.
int getRawResult() int getResultWithRange(min, max)	none	Returns the raw result from the conversion registers which depends on
		the voltage as well as on the voltage range. E. g. if you choose ADS1115_RANGE_6144 a value of +32767 means 6144 mV; for
		ADS1115_RANGE_6144 a value of +32767 means 6144 mv; for ADS1115_RANGE_0256 a value of +32767 would mean 256 mV.
		Best to be explained with an example:
		Condition: voltage range of the ADS1115 is ADS1115_6144 and you use getResultWithRange(-1023, +1023, +5000)
	min / max: minimum / maximum of the range you scale to	Effect: the range of -32767 to +32767 is scaled down to -1023 to +1023.
		The third parameter (5000) leads to 5000 mV delivering a return value of
int getResultWithRange(min, max,	maxVolt: maximum of the voltage	+1023 -> like an Arduino UNO ADC with standard conditions. You have to take care that maxVolt is within the voltage range
maxVolt)	range you scale to	(ADS1115_RANGE_XXXX).
		If you don't use the third parameter, the voltage scale (maxVolt) will be
		equal to the voltage range XXXX in ADS1115_RANGE_XXXX.
unsigned int getVoltageRange_mV()	none	Returns the voltage range / gain you have chosen. In simple words it returns the XXXX in ADS1115_RANGE_XXXX.
		The alert pin will be active when a conversion is completed. You will also
void setAlertPinToConversionReady()	none	need to call the setAlertPinMode function. You can either use the alert
		pin for limit alerts or conversion ready alerts, not both in parallel.
void clearAlert()	none	When the alert latch is enabled, the alert will be active until you call this function or until you call getResult_v / getResult_mv.