List of commands (public functions		<u>-</u>	
Function	Parameters	what it does	
void reset()	none	Resets the ADS1115. Be careful this function uses the I2C general call 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 with X = 1, 2, 4; or:	range samples the alarm pin will assert. When the alert pin is set to conversion ready alert, you also need call this	
	ADS1115_DISABLE_ALERT (default)	function with any parameter except ADS1115_DISABLE_ALERT. Which one	
		you choose exactly doesn't matter. When the alert latch is enabled, the alert pin will be active until you call	
void setAlertLatch(mode)	ADS1115_LATCH_DISABLED ADS1115_LATCH_ENABLED	clearAlert or until you call getResult_V / getResult_mV. When disabled,	
		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	
<pre>void setAlertModeAndLimit_V(mode, upper limit, lower limit)</pre>	mode:	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	
	ADS1115_MAX_LIMIT ADS1115_WINDOW	below the lower limit (if latch is not enabled)	
	ABSITIS_WINDOW	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: voltage [V]	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).	
		After a single-shot measurement the device goes into power-down mode.	
void setVoltageRange_mV(range)	ADS1115_RANGE_X	Sets voltage range in mV and therefore the gain amplifier. The range is alway from -X to +X. Voltages applied to the input pins shall not exceed	
	with X = 6144, 4096, 2048, 1024,	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 which the measured voltage is below 80% of the maximum of the range. I	
	none	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.	
		Sets the automatic voltage range permanantly, but the range will only be	
void setPermanentAutoRangeMode (true /false)	true / false	changed if the vmeasured value is outside 30 - 80% of the maximum value of the current range. Therefore this method is faster than	
		setAutoRange().	
void setCompareChannels()	ADS1115_COMP_X	Sets the channels to be compared channels to be compared to GND	
	1_GND, 2_GND, 3_GND	sets the channels to be compared channels to be compared to divide	
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()		Returns the raw result from the conversion registers which depends on	
	none	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_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	
int getResultWithRange(min, max)	min / max: minimum / maximum of	getResultWithRange(-1023, +1023, +5000)	
me sectionalist mill, max	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	
nt getResultWithRange(min, max,	maxVolt: maximum of the voltage	+1023 -> like an Arduino UNO ADC with standard conditions.	
maxVolt)	range you scale to	You have to take care that maxVolt is within the voltage range (ADS1115_RANGE_XXXX).	
		If you don't use the third parameter, the voltage scale (maxVolt) will be	
unsigned int getVoltageRange_mV()		equal to the voltage range XXXX in ADS1115_RANGE_XXXX. Returns the voltage range / gain you have chosen. In simple words it	
	none	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.	