List of commands (public functions) of the INA219_WE library

Function	Parameters	what it does
bool **Init**( )	none	initiates the INA219 with some default register values; returns true, if the INA219 is connected.
void **reset_INA219**( )	none	reset of the device
void **setCorrectionFactor**(*factor*)	factor (float)	if INA226 current values differ from currents measured with calibrated equipment, you can apply a factor
void **setADCMode**(*mode*)	BIT_MODE_9 BIT_MODE_10 BIT_MODE_11 BIT_MODE_12 SAMPLE_MODE_2 SAMPLE_MODE_4 SAMPLE_MODE_8 SAMPLE_MODE_16 SAMPLE_MODE_32 SAMPLE_MODE_64 SAMPLE_MODE_128	sets the ADC mode for shunt and bus voltage conversion BIT_MODE_X: single measurement with x bit resolution SAMPLE_MODE_X: average of X measurements
void **setMeasureMode**(*mode*)	POWER_DOWN TRIGGERED ADC_OFF CONTINUOUS	sets continuous or triggered mode, but also power down or switches ADC off for POWER_DOWN please chose "powerDown" function since it saves the configuration
void **setPGain**(*gain*)	PG_40 PG_80 PG_160 PG_320	sets the PGain value; the number is the maximum shunt voltage in mV. Using PG_320 and a 0.1 Ohm shunt sets the current range to 3.2 amperes.
void **setBusRange**(*mode*)	BRNG_16 BRNG_32	bus voltage range 0-16 Volt / 0 - 32 Volt
void **setShuntSizeInOhms**(*size*)	shuntSizeInOhms (float)	Define the shunt size in case you don't use a shunt of 0.1 ohms, which is the standard on modules.
float **getShuntVoltage_mV**( )	none	delivers shunt voltage in mV
float **getBusVoltage**( )	none	delivers bus voltage in mV
float **getCurrent_mA**( )	none	delivers current in mA
float **getBusPower_mW**( )	none	delivers the power in mW
bool **getOverflow**( )	none	delivers "true" if an overflow occurs in one of the data registers
void **startSingleMeasurement**( )	none	starts single shot measurement and waits until data is available
void **powerDown**( )	none	switches the module off and saves the configuration before
void **powerUp**( )	none	switches the module on after Power Down and writes back the configuration (modes, gains, etc)