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_4 SAMPLE_MODE_8 SAMPLE_MODE_16 SAMPLE_MODE_32 SAMPLE_MODE_32 SAMPLE_MODE_64	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.
void setShuntVoltOffset_mV(offset)	offset in millivolts (float)	People have reported offsets, i.e. there is a shunt voltage although there is no current (load switched off). The function will correct the current and power.
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)