

## List of commands (public functions) of the INA219\_WE library

Function	Parameters	what it does
<code>void Init( )</code>	none	initiates the INA219 with some default register values
<code>void reset_INA219( )</code>	none	reset of the device
<code>void setCorrectionFactor( <i>factor</i> )</code>	factor (float)	if INA226 current values differ from currents measured with calibrated equipment, you can apply a factor
<code>void setADCMode( <i>mode</i> )</code>	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
<code>void setMeasureMode( <i>mode</i> )</code>	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
<code>void setPGain( <i>gain</i> )</code>	PG_40 PG_80 PG_160 PG_320	sets the PGain value; high PGAIN = high current range, but lower resolution;
<code>void setBusRange( <i>mode</i> )</code>	BRNG_16 BRNG_32	bus voltage range 0-16 Volt / 0 - 32 Volt
<code>float getShuntVoltage_mV( )</code>	none	delivers shunt voltage in mV
<code>float getBusVoltage( )</code>	none	delivers bus voltage in mV
<code>float getCurrent_mV( )</code>	none	delivers current in mV
<code>float getBusPower_mW( )</code>	none	delivers the power in mW
<code>bool getOverflow( )</code>	none	delivers "true" if an overflow occurs in one of the data registers
<code>void startSingleMeasurement( )</code>	none	starts single shot measurement and waits until data is available
<code>void powerDown( )</code>	none	switches the module off and saves the configuration before
<code>void powerUp( )</code>	none	switches the module on after Power Down and writes back the configuration (modes, gains, etc)