

current state	goes to
STATE_IDLE	*
STATE_SET_VOLTAGE	STATE_TRIGGER_ADCS
STATE_TRIGGER_ADCS	STATE_IDLE
STATE_AUTOGAIN	STATE_IDLE
STATE_ADC_MEASURE	STATE_ADC_VALUE_READY
STATE_ADC_VALUE_READY	STATE_IDLE
STATE_GET_HARDWARE	STATE_IDLE
STATE_INITIAL_CALIBRATION	STATE_IDLE
STATE_ERROR	STATE_IDLE