

# FMB battery



Example:

BatState: 1 FSMState: ACTIVE ChargerIC: OFF ExtV: 11796 BatV: 3942 BatI: 0

Response details	Description	Description
<b>BatState</b>	Battery: 0 - disconnected 1 - connected	BatState: 1
<b>FSMState</b>	Current battery state	FSMState: ACTIVE
<b>ChargerIC</b>	Battery charging status	ChargerIC: OFF
<b>ExtV</b>	External voltage	ExtV: 11796
<b>BatV</b>	Battery voltage	BatV: 3942
<b>BatI</b>	Battery charging current	BatI: 0

**Note:** If you want to know device **battery level %**, send **SMS/GPRS** command: **readio 113**

**Example:** Device has battery level 100 %

**Sending command:** readio 113

**Answer sent from the device:** IO ID:113 Value:100

**Value: 100** means that battery level is 100% !

## Command for Personal Trackers

```
ChargerType: INTERNAL
BatStatus: CHARGER_IN
ChargerIC: CHARGING ExtV:
4712 BatV: 3607 BatI: 403
BatLvl: 29
```

Example of battery SMS command response

After issuing 'battery' request via SMS, we get the following result:

Example:

ChargerType: INTERNAL BatStatus: CHARGER\_IN ChargerIC: CHARGING ExtV: 4712  
BatV: 3607 BatI: 403 BatLvl: 29

Response details	Description
<b>ChargerType:</b>	INTERNAL
<b>BatStatus</b>	Current battery state
<b>ChargerIC</b>	Battery charging status
<b>ExtV</b>	External voltage

<b>BatV</b>	Battery voltage in mV
<b>BatI</b>	Battery charging current in mA
<b>BatLvl</b>	Battery level in percents

<b>BatStatus details</b>	<b>Note</b>
<b>PRESENT</b>	Battery is present, notify voltage
<b>CHARGER_IN</b>	Charger plugged in, charging
<b>CHARGER_OUT</b>	Charger was removed
<b>OVERVOLPROTECT</b>	Abnormal behaviour, charging error
<b>OVERBATTEMP</b>	Battery's temperature over 45C when device is on charge and 58C when device is in discharge mode
<b>LOWBATTEMP</b>	Battery's temperature under -15C
<b>OVERCHARGECURRENT</b>	Abnormal behaviour, charging error
<b>CHARGE_COMPLETE</b>	Battery fully charged
<b>INVALID_BATTERY</b>	Abnormal behaviour, battery error
<b>INVALID_CHARGER</b>	Abnormal behaviour, charging error
<b>CHARGING_TIMEOUT</b>	Abnormal behaviour, charging error
<b>LOWCHARGECURRENT</b>	Abnormal behaviour, charging error
<b>CHARGE_BAD_CONTACT</b>	Abnormal behaviour, charging error
<b>BATTERY_BAD_CONTACT</b>	Abnormal behaviour, battery error
<b>USB_CHARGER_IN</b>	Charger plugged in, charging
<b>USB_CHARGER_OUT</b>	Charger was removed
<b>USB_NO_CHARGER_IN</b>	Charger plugged in, not charging
<b>USB_NO_CHARGER_OUT</b>	Charger was removed
<b>BATTERY_IN</b>	Battery is attached
<b>BATTERY_OUT</b>	Battery is removed

#### **ChargerIC Status**

<b>STANDBY</b>
<b>CHARGING</b>
<b>DONE</b>
<b>ERROR</b>
<b>OFF</b>