High Precision Battery Monitor

**WBM-Basic • WBM-Pro • WBM-Pro HV**

How long will your battery last? • When do I need to replace my battery?
When do I need to recharge my battery?

- The window to your battery
- Accurate energy monitoring of one or two battery banks
- No sudden empty battery: precise ‘time remaining’ indicator (hrs, min)
- Calculation of ampere hours consumed
- State of charge indicator in %
- Various programmable alarms
- Easy to use, plug and play installation

smart energy solutions
Parameter | WBM-Basic 40290310 | WBM-Pro 40290311 | WBM-Pro HV 40290312
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**Supply voltage range** | 9.35 VDC | 9.35 VDC | 14.70 VDC
Supply current<sup>1</sup>: @Vin=24VDC | 7 mA | 7 mA | 5 mA (@Vin=48VDC)
@Vin=12VDC | 9 mA | 9 mA | 6 mA (@Vin=36VDC)
**Input voltage range (auxiliary battery)** | 2.35 VDC | 2.35 VDC | 2.35 VDC
**Input voltage range (main battery)** | 0.35 VDC | 0.35 VDC | 0.70 VDC
**Input current range**<sup>2</sup> | -999..+999A | -999..+999A | -999..+9990A
**Battery capacity range** | 20..999 Ah | 20..9990 Ah | 20..9990 Ah
**Operating temperature range** | -20..+50°C | -20..+50°C | -20..+50°C
**Readout resolution**: voltage | ± 0.1V (0..35V) | ± 0.01V (0..35V) | ± 0.01V (0..70V)
**current**<sup>2</sup> | ± 0.1A (0..100A) | ± 0.1A (0..200A) | ± 0.1A (0..200A)
**capacity range**<sup>2</sup> | ± 0.1Ah (0..100Ah) | ± 0.1Ah (0..200Ah) | ± 0.1Ah (0..200Ah)
**state-of-charge (0..100%)**<sup>3</sup> | ± 0.1% | ± 0.1% | ± 0.1%
**time remaining (0..24hrs)**<sup>3</sup> | ± 1 mn | ± 1 mn | ± 1 mn
**temperature (-20..+50°C)**<sup>3</sup> | ± 0.5°C | ± 0.5°C | ± 0.5°C
**Voltage measurement accuracy** | ± 0.3% | ± 0.3% | ± 0.3%
**Current measurement accuracy** | ± 0.4% | ± 0.4% | ± 0.4%
**Material of housing** | ABS | ABS | ABS
**Color** | RAL 7021 black/ grey | RAL 7021 black/ grey | RAL 7021 black/ grey
**Dimensions**: frontpanel / body diameter | ø 64 mm / ø 52 mm | ø 64 mm / ø 52 mm | ø 64 mm / ø 52 mm
**total depth / weight** | 79 mm / 95 gr | 79 mm / 95 gr | 79 mm / 95 gr
**Shunt dimensions**: footprint | 45 x 87 mm | 45 x 87 mm | 45 x 87 mm
**height**<sup>4</sup> | 17 mm (base) / 35 mm (high current fasteners) | 17 mm (base) / 35 mm (high current fasteners) | 17 mm (base) / 35 mm (high current fasteners)
**weight**<sup>5</sup> | 145 gr | 145 gr | 145 gr

**Protection class** | IP20 (frontpanel only IP65) | IP20 (frontpanel only IP65) | IP20 (frontpanel only IP65)
**Complies with the following standards** | EN61000-6-3 (EN55022), EN61000-6-2 (EN61000-2-3/4), EN61000-4- 3, LVD 73/23/EEC (EN60335-1), EN60335-3, RoHS 2002/95/EC, RoHS 2011/65/EU

<sup>1</sup> Measured with backlight and alarm relay turned off.  
<sup>2</sup> Depends on selected shunt. With standard delivered 500A/50mV shunt (350A continuous), the range is limited to -600..+600A.  
<sup>3</sup> Only available when optional temperature sensor is connected.  
<sup>4</sup> Only available when optional temperature sensor is connected.  
<sup>5</sup> Only available when optional temperature sensor is connected.

**Features:**
- WBM reads your battery bank like a fuel gauge.  
- Provides critical information about the status of your battery bank(s).  
- Displays voltage, current, consumed amp hours, remaining battery capacity and "time remaining".  
- Two battery inputs.  
- Large backlight LC Display.  
- Quick nut mounting construction.  
- Fully programmable alarm relay.  
- Shunt selection capability enables flexible system integration.  
- Communication/expansion port.  
- Stores a wide range of historical events in internal memory.  
- Splash proof frontpanel.  
- 500 Amp shunt included.  
- CE and e-mark certified.  
- 24 months warranty.

**WhisperPower BV**
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**Art. Nr. | Item**
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40290300 | WBM 6mtr Connection accessory kit
40290301 | WBM 12mtr Connection accessory kit
40290302 | WBM 3mtr Quick Connection kit
40290304 | WBM 10mtr Temperature sensor kit
40290305 | WBM-RS-232 Communication kit
40290306 | WBM-USB Communication kit
40290307 | WBM1:5 Voltage prescaler kit
40290308 | WBM Alarm output expander kit
40290320 | WBM1200A/50mV shunt
40290321 | WBM500A/50mV shunt (included WBM)