Smart Battery monitoring A look inside the battery

When putting together a DC installation for a boat or yacht, there is more to take in to consideration than just the correct choice of battery and associated charging systems. All sorts of other items can have something to do with the battery or are connected to it and can significantly impact the end result.

Battery usage indicator - knowledge is power

The WBM is a universal battery monitor that displays the status of the battery with very high precision. Via the display, the following information is brought up:

- The main battery voltage (V)
- The power consumption indicated in ampere-hours (Ah)
- Power consumption in amperes (A)
- Charge current of battery charger, combi, solar panels, windmills, etc. (A)
- Battery capacity in %
- Remaining battery capacity and "time remaining" in minutes and hours (Pro Series)

The WBM provides a look 'inside' the battery and is essential for preserving long battery life.

Three versions

The WBM Basic version is identical to the PRO version, only without the "time remaining" indicator in hours and minutes. The PRO-HV is suitable for DC systems up to 70 VDC.

Automatic start function

The WBM can also be used as a means of automatically starting a DC or AC generator, based on the battery voltage or battery condition. This is achieved via RS 232 communication (order RS 232 option) Please note that your generator must be suitable for this function. WhisperPower generators are equipped with an automatic start / stop adjustment kit as standard.

Remote communication

The WBM, fitted with the RS 232 option, can be used to remotely monitor power systems using a GSM or an internet connection.



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		WBM-BASIC	WBM-PRO	WBM-PRO HV
Article Nr.		40290310	40290311	40290312
TECHNICAL SPEC				
Supply voltage rang		9 35 VDC	9 35 VDC	1470 VDC
Supply current ¹⁾	at 24 VDC	7 mA	7 mA	5 mA (at 48 VDC)
	at 12 VDC	9 mA	9 mA	6 mA (at 36 VDC)
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 ampere 2)		-999 +999A	-999 +999A	-999 +999A
Battery capacity (min max)		20 999Ah	20 999Ah	20 999Ah
Operating temperature		-20 +50°C	-20+50°C	-20 +50°C
Readout accuracy:	voltage	\pm 0.1V (0 35 V)	\pm 0.1V (0 35 V)	\pm 0.1V (0 $$ 70 V)
	current	± 0.1A (0 100 A)	± 0.1A (0 200 A)	± 0.1A (0 200 A)
	current	± 1A (100 999A)	± 1A (200 999A)	± 1A (200 999A)
	battery capacity	± 0.1Ah (0 100 Ah)	± 0.1Ah (0 200 Ah)	± 0.1Ah (0 200 Ah)
	battery capacity	± 1Ah (100 999Ah)	± 1Ah (200 999Ah)	± 1Ah (200 999Ah)
	start of charge (0100%)	± 0.1%	± 0.1%	± 0.1%
	time remaining (0 24hrs)		± 1 min	± 1 min
	time remaining (24 240hrs)		±1 h	±1h
	temperature (-20 +50°C) 3)		± 0.5°C	± 0.5°C
Voltage measurement accuracy		± 0.3%	± 0.3%	± 0.3%
Current measurement accuracy		± 0.4%	± 0.4%	± 0.4%
Housing material		ABS	ABS	ABS
Colour		RAL 7021 black grey	RAL 7021 black grey	RAL 7021 black grey
Dimensions: diameter front panel / cylinder		ø 64 mm / ø 52 mm	ø 64 mm / ø 52 mm	ø 64 mm / ø 52 mm
total depth / weight		79 mm / 95 g	79 mm / 95 g	79 mm / 95 g
Shunt dimensions:	base	45 × 87 mm	45 × 87 mm	45 × 87 mm
	height	17 mm (basis) /	17 mm (basis) /	17 mm (basis) /
		35 mm (cable connector)	35 mm (cable connector)	35 mm (cable connector)
	weight	145 g	145 g	145 g
International Protection rating		IP20 (front panel IP65)	IP20 (front panel IP65)	IP20 (front panel IP65)
				20 (parlor ii 00)

¹⁾ measured with backlighting and alarm relay switched off
²⁾ Subject to selected shunt. With 500 A/50mV shunt (350 A continuous) delivered as standard the range is -600..+600 A
³ Only available if optional temperature sensor is connected









