VOTRONIC



Fully charged or only half-fully?

How much residual charge does my board battery still have?

The crucial point for comfort on journey is the battery. It is really annoying, when the battery signalises suddenly and unexpectedly total discharge and the comfort ends. But how much power is still in the battery? Is the battery really "Full"? Why is energy still taken from the battery, although the consumers have been switched-off? The LCD-Battery-Computer S gives the answer to these and other questions.

It informs of all current data of the battery. All charging and discharging currents are recorded accurately. Battery size, self-discharge, battery load etc. are considered by means of programmed characteristic diagrams. Battery voltage or current, as well as the charging state are displayed as residual capacity in ampere-hours or as percentage and as level bar. Additionally, the voltage of the starter battery can be displayed.

The freely programmable terminal can also be used for purposes of control, supervision and warning, for instance as remote-controllable main switch with undervoltage protection. Then, the consumers are switched-off via a connected switch unit (such as Switch Unit 40 or 100), which can be effected manually at any time or automatically, as soon as the adjusted lower value is attained. They can be reconnected manually by pressing a key and by activation of the function EMERGENCY-ON. Installation is conceivably simple: The supplied precision measuring resistor (shunt) will be connected directly to the negative pole of the board battery and to the display using the plug-and-go cable. The small mounting depth of only 22 mm allows an installation of the display at almost any location

PRODUCT FEATURES



- · Fuel gauge for the battery
- Bright display with white illumination
- Indication of the battery's charging state adjustable for lead-acid, gel, AGM, as well as LiFePO4 batteries
- Residual capacity in Ah and %
- Charging/discharging current in A
- Voltage for 2nd battery in V
- Programmable terminal with main switch function up to 100 A
- Including precision measuring
- For all 12 V and 24 V batteries

All technical data, see page 97 or visit our website www.votronic.de

LCD-Battery-Computer S

The fuel gauge for the battery











Battery Current during Charging

Display of remaining time

Important information concerning the measuring shunt

The choice of the suitable unit type (100 S, 200 S or 400 S) is exclusively depending on the maximum permanent load by consumers.



- Battery voltage board battery, 7 to 32 V (Volts), internal measuring scale 0.1 V.
- Allows drawing conclusions from the battery behaviour in case of variations in load and serves as operational check, for instance, of the charger, the solar system, the dynamo etc.. Flashing warning signal in case of overvoltage.
- Battery current (+ = charge/= = discharge) +/- 0 bis max. +/- 1800 A (Amperes, depending on type), internal measuring scale 0.1 A. control of the discharge current rates (load) by the consumers, indicated by the sign "—". Control of the discharge current rates identified by a "Charge" sign.
- Battery capacity,"Ah" (residual charge in ampere-hours) from 0 Ah (empty) to nominal capacity (full), max. 2000 Ah.
- Battery capacity "%" (percentage residual charge) from 0 % (empty) to nominal capacity (full), 100 %.
- Battery voltage starter battery, 2nd battery, 7 to 32 V (Volts), internal measuring scale 0.1 V.
- Terminal, freely programmable and tactile (PNP, plus potential 12 V / 24 V, max. 0.5 A).
- Display of remaining time "h", as calculational reference point for the calculation, how long the residual capacity is sufficient until the adjusted switching off threshold is reached, in case of constant current consumption.

Smart-Shunt 100 A, 200 A or 400 A (Precision Measuring Resistor) with integrated battery temperature measurement included in the items delivered

Optional: Temperature Sensor 825 or Temperature Sensor 625

97



Measuring Devices and Displays LCD-Charge Control S / LCD-Solar Computer S / LCD-Thermometer/Clock S







Unit Type	LCD-Charge Control S ¹	LCD-Solar-Computer S ²	LCD-Thermometer/Clock S ³	
Order No.	1247	1250	1250 1253	
Battery Voltage	12 and 24 V	12 and 24 V	12 and 24 V	
Current Consumption (Illumination abswitchable)	3-30 mA	3-30 mA	1-30 mA	
Measuring Range	-	-	-30 bis +70° C	
Dimensions (HxWxD)	85x80x24 mm	85x80x24 mm	85x80x24 mm	
Assembly Dimensions (HxWxD)	70x65x22 mm	70x65x22 mm	70x65x22 mm	
Weight	55 g	55 g	60 g	

Mark of Conformity: CE, E Test (EMV/automotive regulations)

Delivery Scope: fastening screws, manual, drilling jig, 1,2 control cable of 5 m length, 31 piece outdoor sensor and plug-in type terminal

Recommended Accessories: Casing S Order No. 2014, Control Cable 5 m extension Order No. 2005

Measuring Devices and Displays LCD-Battery-Computer S	1367	367	967
Unit Type	LCD-Battery Computer 100 S	LCD-Battery Computer 200 S	LCD-Battery Computer 400 S
Order No.	1263	1266	1269
Battery Voltage Acid/Gel/AGM	12 and 24 V	12 and 24 V	12 and 24 V
Battery Voltage LiFePO4	12.8 V-13.2 V / 25.6 V-26.4 V	12.8 V-13.2 V / 25.6 V-26.4 V	12.8 V-13.2 V / 25.6 V-26.4 V
Measuring Shunt in the Delivery Scope	100 A	200 A	400 A
Current Consumption (Illumination abswitchable)	3-30 mA	3-30 mA	3-30 mA
Nominal Capacity of Battery adjustable	50-2000 Ah	50-2000 Ah	100-2000 Ah
Current Carrying Capacity Duration/15 Min/Short-time	+/- 100/150/450 A	+/- 200/300/900 A	+/- 400/600/1800 A
Dimensions Display (HxWxD)	85x80x24 mm	85x80x24 mm	85x80x24 mm
Assembly Dimensions (HxWxD)	70x65x22 mm	70x65x22 mm	70x65x22 mm
Dimensions Shunt (HxWxD)	135x30x42 mm	135x30x42 mm	135x30x42 mm
Weight Display/Smart-Shunt	55 g/300 g	55 g/310 g	55 g/330 g

Mark of Conformity: CE, E Test (EMV/automotive regulations)

Delivery Scope: Display unit, Smart-Shunt 100 A, 200 A or 400 A, control cable of 5 m length, ground strap, fastening screws, manual, drilling jig

Accessories			SF		Militarians*	HOTBIANC Totals that A 12 2	VONOME = 1
Unit Type	Casing S	Control Cable (Extension 5 m)	Temperature Sensor 825/625	Inside Temperature Sensor	DCF Module	Switch Unit 40 A	Switch Unit 100 A
Order No.	2014	2005	2001/2088	2085	2062	2071	2072
Suitable for							
LCD-Solar-Computer S	•	•	_	_	_	_	_
LCD-Thermometer/Clock S	•	•	•	•	•	_	-
LCD-Battery-Computer S	•	•	_	_	_	•	•

>> More technical specifications and informations you will get at our website www.votronic.de