

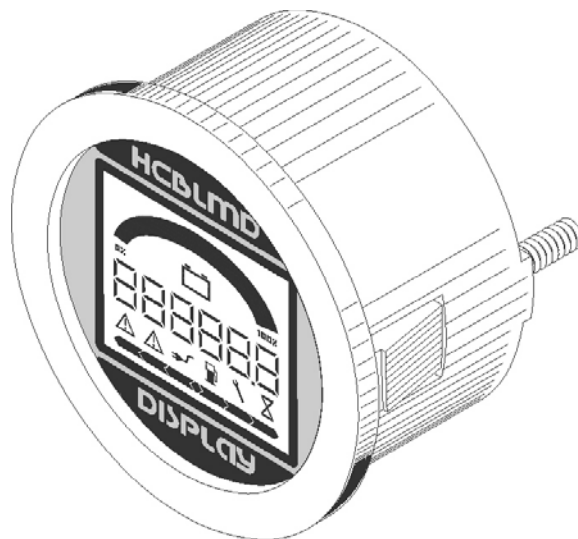


elektrosistem



# HCBLMD

## MULTIFUNCTION INDICATOR WITH LCD DISPLAY



Elektrosistem HCBLMD indicator combines different instruments in one device.

First of all it is a multivoltage microprocessor based battery level indicator with LCD display. The battery level is indicated by the length of the segment bargraph including 0% and 100% icons, the indication is accurate and is not affected by voltage drops that can cause errors in readings.

The charge percentage is stored in the memory when the key is switched off. The battery level is controlled through a flexible algorithm making it specially accurate in monitoring the discharge level, thus increasing battery life.

HCBLMD indicator also displays operating hours thanks to an hour meter with controlled counting. When the indicator is connected and the pins are energized the recorded hours of use are displayed. A flashing hour-glass icon indicates the hour meter is recording.

In addition HCBLMD indicator is used to indicate the position of the steering wheel and to display maintenance messages. The wrench icon lights up on the display when maintenance is due.

In most applications controllers are generally located in positions difficult to be reached and the fault LED can not be seen by the operator. To make trouble shooting operations easier, the indicator can also be used to display error messages from an Elektrosistem motor controller.

*Battery indicator operation* - When connected the indicator reads the battery voltage to check whether the battery has been recharged. Reset is only possible when a battery voltage higher than or equal to the pre-set value is measured (standard reset voltage pre-set at 2.07V/cell).

The bar length decreases proportionally to the battery level and when 0% level is reached the bar becomes off and the battery icon flashes to warn the operator about the battery state.

The connector includes an output for the lockout function used to prevent the complete discharge of the battery that can damage it, reducing its life and capacity. An energy reserve is kept to protect the battery. Lockout occurs when the pre-set value for empty battery is reached and is signalled by the flashing battery icon. Operation is only restored when the battery is recharged.

Reset voltage, discharge curve and lockout voltage can be customized.

### TECHNICAL FEATURES

- Microprocessor based operation
- Segment bargraph to indicate the battery level
- Lockout function with adjustable voltage
- Storage in EEPROM memory without need of additional battery
- Reverse polarity protection
- Standard 52 mm case

~~NEWS~~

## TECHNICAL SPECIFICATIONS

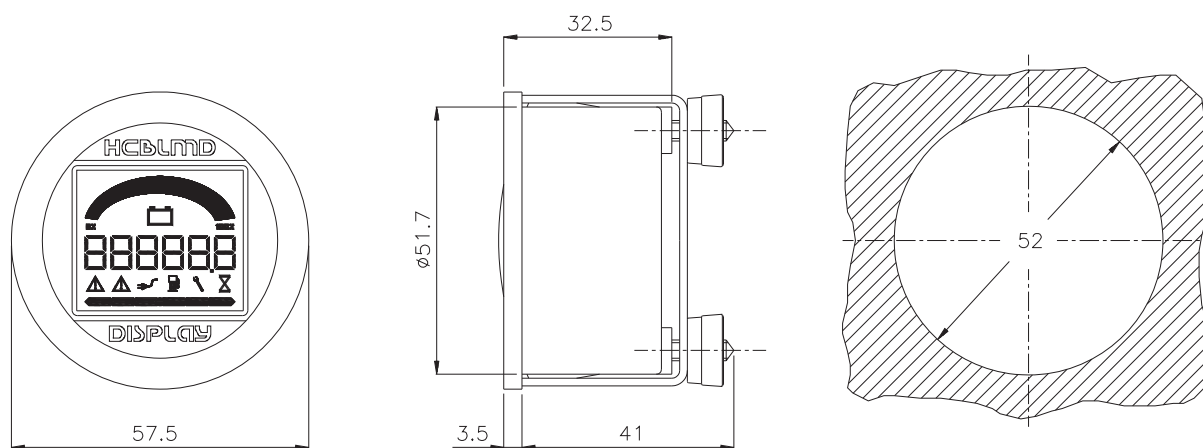
Operating voltage ..... 12V or 24-80V (Multivoltage, Programmable)  
 Reset voltage ..... 2.07 V/cell  
 Current consumption ..... lower than 10 mA  
 Operating temperature ..... -20°C +40°C

The indicator is equipped with a push button to be used for the following options:

- To set operating voltage
- To set the lockout value
- To reset the hour meter
- To reset the maintenance hour meter

**N.B. Data subject to changes without notice**

## DIMENSIONS



## WIRING DIAGRAM

