

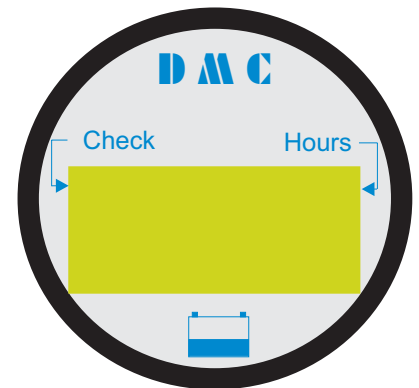
Multi-V battery gauge, multivoltage with battery diagnostic computer

Integrated. Quick and easy view of the state of the battery and diagnostic state. Highly customizable product, flexible and easy to mount and use.

Backlight makes favorable readout of the display with low ambient light.

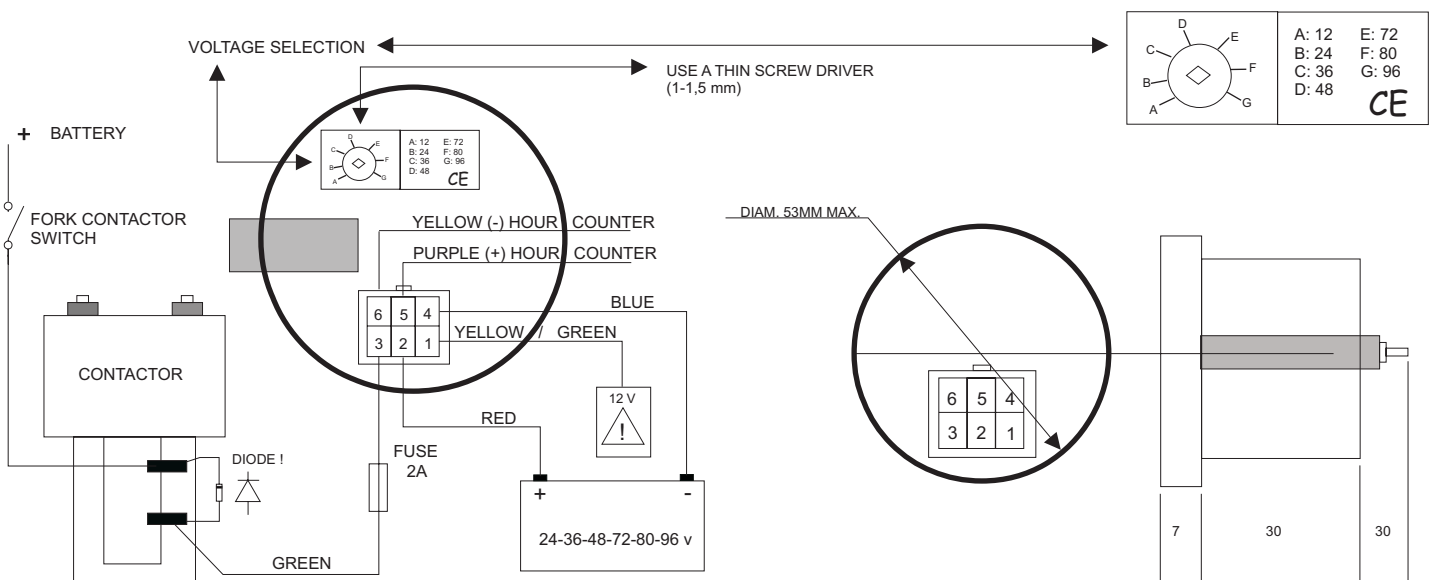
Hour counter integrated with 1 hour resolution and 6 digits.

The discharge ratio is both in graphical bar style and in direct % readout on the display



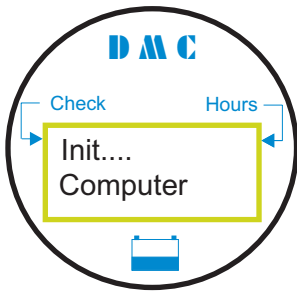
Technical Features:

- Microprocessor controlled device
- Max. Input current under all normal working conditions: 25 mA (max.!))
- Max. Current driven from the fork switch: 1,5 Ampere continuous (max.!))
- Discharge indication step: 10%
- Set voltages: 12 - (use pin 1, red-green wire !) 24-36-48-72-80-96 Volt (for voltages 24...96 use only Pin. 2, red wire)
- **Important:** do not apply a voltage > 20 Volt on pin. 1 (red-green wire !), damage will happen
- Max. allowable voltage on pin. 3 for Fork lock: the battery nominal voltage;
- **Important:** always mount a diode on the Fork contactor coil in order to avoid voltage surges on pin. 3.
- Connection to the Multi-V: MOLEX Minifit 6 poles female
- Protected for supply reversal between negative and positive
- Hours are shown up to 6-digits with no decimal point.
- Memory holds the latest discharge status at turn OFF
- Full reset to 100% with a voltage/cell ratio $\geq 2,05$ Volt/ cell approx.
- FORK message indication when battery is at 20% discharge and fork switch is off.
- Hour counter starts if Yellow wire is connected to Negative (-) or Purple to Positive (+).
- Hour counter don't count if no Yellow or Purple wire is connected. Don't connect both!
- The battery level indication changes visualization every 10sec. Approx. from graphical to characters
- Ambient temperature: 0 - 50 C, storage temperature: -20 C to 50 C

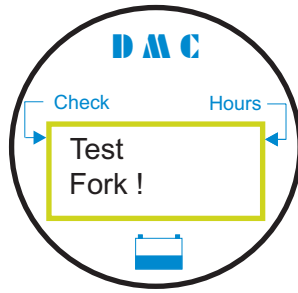


Electrical Wiring

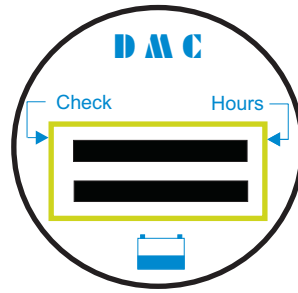
Mechanical Outlines



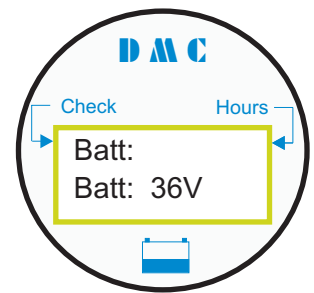
Initialization start-up



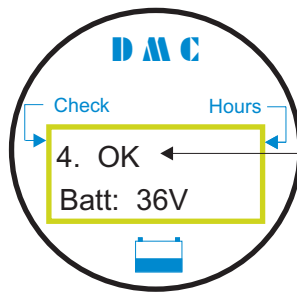
Fork stop testing, the internal switch turns ON and OFF for 2 seconds approx.



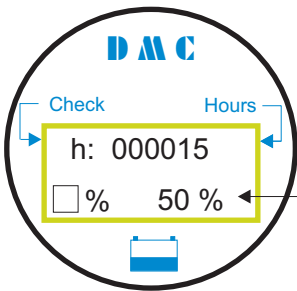
Display turn ON TEST



The selected operation voltage is showed on the display

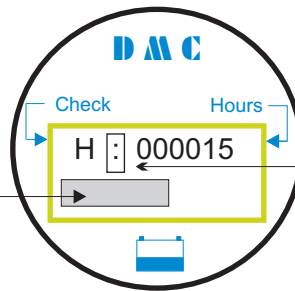


DIAGNOSTIC CODE	MESSAGE
1	LOW : battery voltage = low < 1,65 V/cel
2	HIGH : battery voltage = high > 2,16 V/cel
3	FALL : battery has an anomaly in voltage drop during use !!
4	OK : the battery voltage is correct respect the set one
5	FORK : the FORK switch is OFF !!!
6	-
7	-

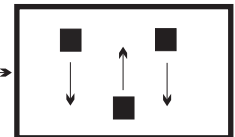


Double readout for battery level!!

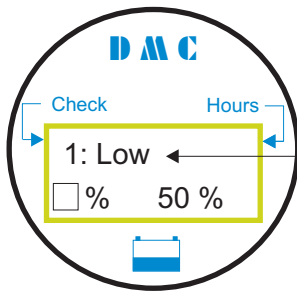
30 seconds approx.



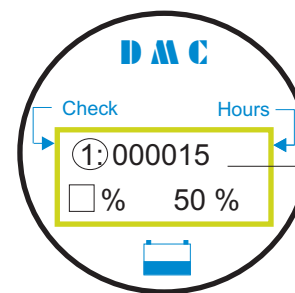
Hour counter is not counting



Hour counter is working... position change every 2.0 seconds



During work there is a diagnostic message Pop-up. For example: "battery low", and it informs the operator about it. This message disappears after 15 seconds approx., If the fault is over.



The diagnostic code is still present, after the fault in order to inform about the event just happened!