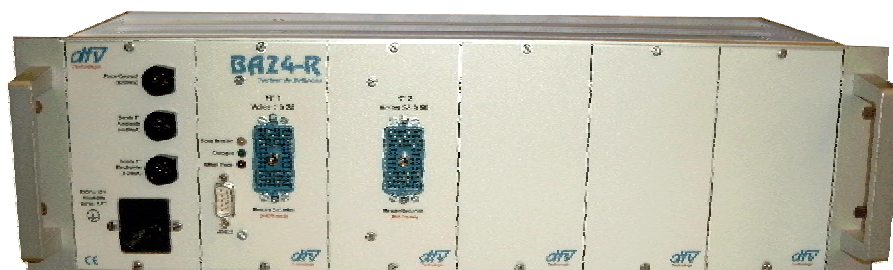




Technologie

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User's guide of automatic battery tester BATCAT BA24R



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OVERVIEW OF BATCAT BA24R

The automatic battery tester BATCAT BA24R allows to test up to 5 batteries simultaneously up to 249 Cells depending of it's configuration (From 1 to 10 racks)

BA24R unit is fully controlled by BACATWIN Software (See user's guide of this software)

Different versions of the BATCAT BA24R :

- BA24R-1T : Unit equipped with 1 Rack
- BA24R-2T : Unit equipped with 2 Racks
- BA24R-10T : Unit equipped with 10 Racks

1 to 5 racks version is package in 19" and 3U height
6 to 10 racks version is package in 19" and 6U height



BA24R 3U Height



BA24R 6U height

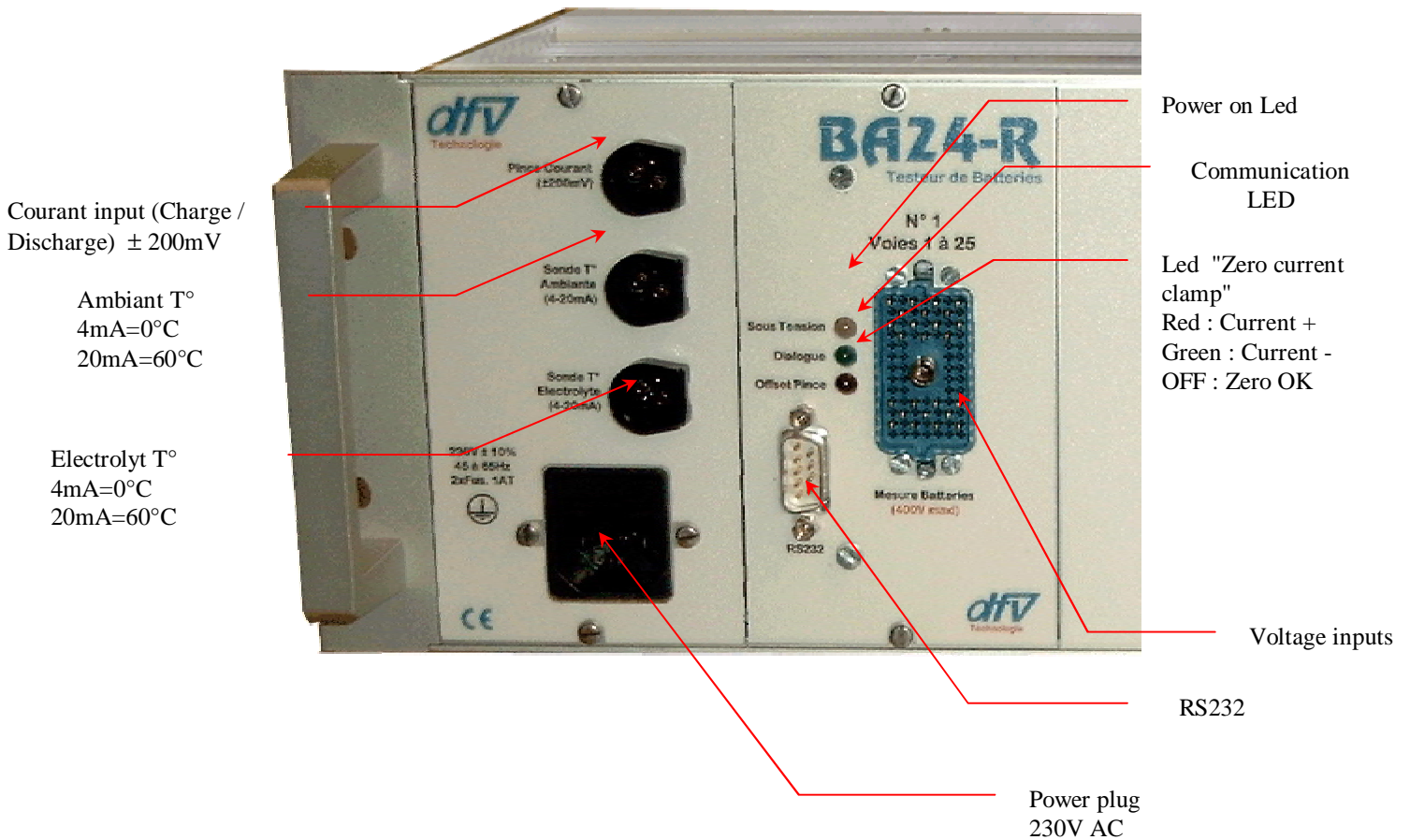
USING BA24R

Connect power plug into 230V AC main using the power cable.

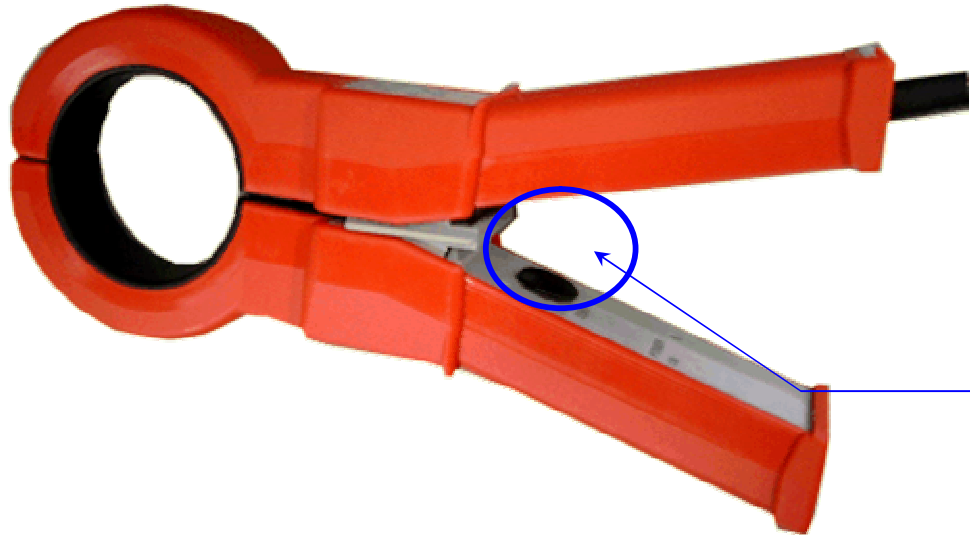
Connect the temperature probe (Optionnal)

Connect current clamp using the dividers (Optionnal)

Connect voltage using blue connectors

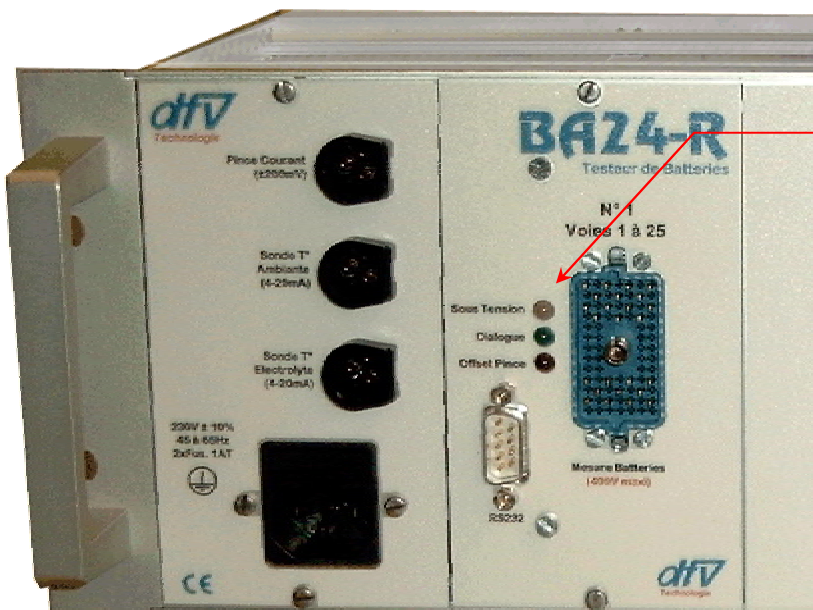


If you use a current clamp, it is necessary to adjust the "Zero level"



Turn the Button to adjust the Zero level

For the Zero Adjustment, BA24R is provided with a Led "Zero Adjust". Be careful, this function is only available after power on, if the batcat is not connected to the PC.

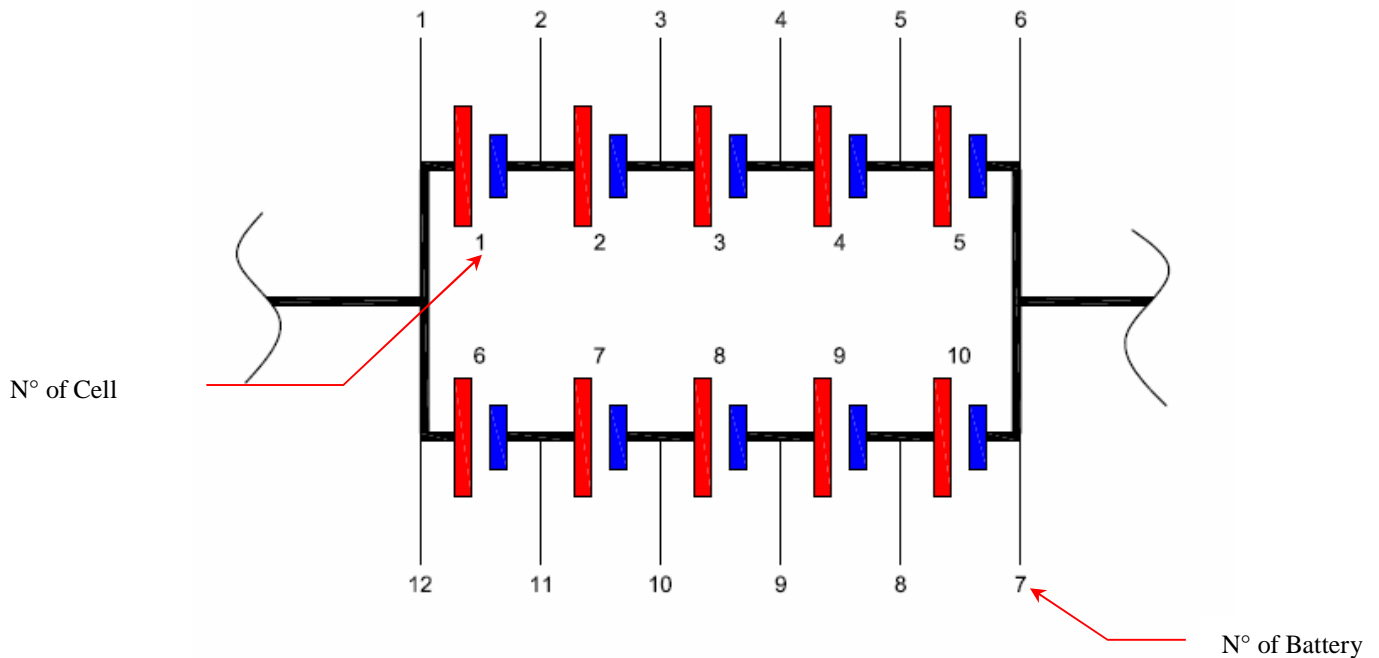


When the Led is Switched off, the zero is OK.

It is normal that the Led goes lights either Red or Green when Zero is OK .

CELLS CONNECTION

When connecting parallel battery, You must connect it in "Zig Zag" mode (See scheme below)



Exemple for 2 batteries of 5 cells

START OF MEASURE

Connect PC on the serial link of the BATCAT with the provided ZEROMODEM Cable, and start BATCATWIN Software.

TECHNICAL DATA

Analog inputs :

- Each rack has 25 inputs

Maximum voltage for one rack is 400 Volts

- Up to 5 batteries , up to 249 Cells

Range 1 : 0.15V à 3.1V Range 4 : 0.60V à 12.4V

Range 2 : 0.30V à 6.2V Range 5 : 0.75V à 15.5V

Range 3 : 0.45V à 9.3V Range 6 : 0.90V à 18.6V

- *Maximum voltage for 1 Rack is 400 volts.*
- *Maximum voltage for a unit BATCAT BA24R is 500V*
- *Insulation is 500V*
- measure interval is 10 secondes
- AD converter : 14 bits
- Accuracy : +/- 2mv for 3V Range

1 analog input for current clamp

- This input is earth connected and must be insulated in case of measure on a SHUNT
- input impedance : 100 Kohms
- $\pm 200\text{mV}$ paccuracy : $\pm 0,5\%$

2 analog inputs for temperature measurements

On 3 points connector FRB ref : DB 315.22.40

- These inputs are connected to the earth (must be insulated)
- input impedance: 110 ohms
- range 4 - 20 mA, accuracy : $\pm 0,5\%$

Serial Link :

Serial link RS232 is used to connect a PC

Led :

- Red "power on"
- Green "communication"
- Green/Red for adjusting the Zero of the current clamp.

Power supply :

- Power 230V $\pm 10\%$ 45 à 65 Hz protected by 2 fuses 1A slow
- Max consumption : 100VA

Size and Weight :

- 530 x 320 x 160 mm for the 3U unit and 530 x 320 x 290 mm for the 6U unit
- Weight : Depending of the Racks Between 5kg and 10kg

BATCAT must be connect to the protective Ground.