

Digital Battery Voltage Monitor – BAMVI v1.1 (2 Contacts)

S/W V1.00.1 & ONWARDS 2224

FEATURES

- LCD display for voltage
- Digital presettable thresholds for voltage and delays
- Three push buttons for selecting display measurement and accessing the menu
- Colored leds to indicate battery status
- Wiring through plug in connector
- Case conforms to DIN 43 880 of the British Standard
- Fits onto 35mm symmetric DIN rail to BS5584 (EN 50 022, DIN 46277-3)
- Humidity class, DIN 40040
- Environmental protection, DIN 40 050

ABSOLUTE MAXIMUM RATINGS

Supply DC voltage	48 volts
Auxiliary contact	8A ac1
Operating temperature	0 to 70°C

OPERATION

Battery voltage is measured and displayed. Following is a description of the operation of this device:

1. The first auxiliary power source is turned on (output relay de-energizes) after elapse of time set in "ON DELAY" when the voltage per battery goes below "ON VOLT THR". Yellow led labeled **AUX. OFF** goes off simultaneously.
2. The first auxiliary power will remain ON for a minimum time set in "RUN TIME MIN". After the elapse of this time, the auxiliary power source will be turned off (output relay energizes) when the voltage per battery goes above the voltage set in "OFF VOL THR". Yellow led labeled **AUX. OFF** goes ON.
3. The second auxiliary power source is turned on (output relay de-energizes) after elapse of time set in "ON DELAY2" when the voltage per battery goes below "ON VOLT THR2".
4. The second auxiliary power will remain ON for a minimum time set in "RUN TIM2 MIN". After the elapse of this time, the auxiliary power source will be turned off (output relay energizes) when the voltage per battery goes above the voltage set in "OFF VOL THR2".

SETTING

Press the push button in the middle to access the parameters menu, you will be prompted to enter a three-digit code provided by SAS (Default Password: 001). The up and down push buttons are used to scroll to the desired number. Press the SELECT push button. "C" replaces the first digit. Repeat until all three digits are entered. If the entered password is valid, the user will have access to the menu. Once the user enters the menu, the up and down push buttons are used to scroll up and down respectively in the menu list. Pressing the push button in the middle will edit the value of the parameter displayed. Use the up and down push buttons to respectively increase and decrease the value. Press the push button in the middle to save new value. FACTORY RST requires the user to confirm the action by pressing the middle push button. Following is a description of the parameters:

Display	Description	Range	Factory setting
NBRE OF BATT	Number of Batteries	1 to 20	1
ON VOLT THR	On Voltage threshold for auxiliary output1 per battery	0 to 99.9	44 volts
ON DELAY	On delay in seconds for auxiliary output1	0 to 255 sec	2 sec
OFF VOL THR	Off voltage threshold for auxiliary output1 per battery	0 to 99.9	47 volts
RUN TIME MIN	Minimum run time for auxiliary output1 in minutes and seconds	0 to 9'99"	0'00"
SENSING VOLT	Voltage sensing range LOW (Voltage<=56V), sensing voltage connected to terminal LV HIGH(Voltage>56V) , sensing voltage connected to terminal HV	LOW(0) HIGH(1)	LOW
CONTRAST	LCD Display contrast	0 to 63	5
ON VOL THR2	On Voltage threshold for auxiliary output2 per battery	0 to 99.9	48 volts
ON DEL2	On delay in seconds for auxiliary output2	0 to 255	2 sec
OFF VOL THR2	Off voltage threshold for auxiliary output2 per battery	0 to 99.9	51 volts
RUN TIM2 MIN	Minimum run time for auxiliary output2 in minutes and seconds	0 to 959	0 sec
FACTORY RST	Load Factory settings	-	-
EXIT	Exit menu	-	-

INSTALLATION

1. Supply Voltage: Connect terminals +, - to the positive and negative sides of the power supply respectively (48Vdc).
2. Sensing Voltage Input :
 - For up to 56Vdc: Connect the voltage to be sensed to terminal **LV**.
 - For up to 322Vdc: Connect the voltage to be sensed to terminal **HV**.
3. Auxiliary Output1: Connect terminals 5, 6 and 7 as desired.
4. Auxiliary Output2: Connect terminals **COM2, NO2, NC2** as desired.



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