Thunderstruck Motors JLD404 Manual

Thank you for purchasing a JLD404 battery meter. You have made a wise choice to monitor the status of your batteries. Before installing your meter, please read this entirely and see the included wiring diagram.

It should be apparent from the drawing that your high-current load does not go through the meter. Instead it is sensed via the shunt at 9 and 10 (notice that 10 is closest to battery). If you have any question about the legitimacy of your wiring, feel free to take a photo of it and shoot us an email; we'll gladly look it over for you.

To get your meter to function to it's fullest, you may need to establish a few parameters. Your meter should already be set up for your battery pack, in that it is programmed to accept either a voltage range from 0-100V or from 0-500V. Be sure to use the appropriate terminal (5 or 6) for your application. If you want to change this setting, you'll have to swap terminals, and change settings for both the v-Sn (voltage input) and vPvH (full scale voltage) to match your choice.

To make programming changes like those mentioned above, see the included manufacturers manual for details. Simply put, you hit SET and choose 0036, and scroll through the choices. To make changes to the output relay settings, you hit SET and choose 0001.

To reset Ah or Timer, scroll until that variable is displayed, then hold the Down arrow for 3 seconds (until you hear a beep) and it will reset to zero. If you want the meter to cycle through all of the display variables, hold the Right arrow for 3 seconds, until you hear the beep.

In regards to the relays, consider both terminal sets 15-16 and 18-19 two normally closed circuits, or 16-17 and 19-20 normally opened circuits. To change the level that these relays switch on and off (at a certain voltage, amp, or Ah) please see the included manufacturers manual.

Please let us know if you have any questions or concerns with your application and we'll do our best to help you out!

-Thunderstruck Motors



HB 404 DC AH Meter by Annex Depot Inc Copy Right® 2012

Features

- Support DC input: 5A, 1A, 75mV, 100V, 500V
- Wide range measurement can be achieved by using a proper DC shunt
- Range: 0.001 ~ 9999AH
- Two alarm output; Alarm or Control for I,V,AH protection
- Cycling display AH, I, V, and time

1) Specification

- Input range: Current: 0~9999A(need a DC shunt) : +/-0.5%FS+3d; 0~500VDC (0.5% FS+3d)
- Input mode: Common ground
- Sampling: 3times/sec
- Overload: "EEEE" or "-EEE"
- Expandable(need a proper DC shunt, programmable)
- AH: 0.001 ~ 9999AH
- DC Accuracy: +/- 1%
- LED Display: Power (Blue/0.56")
- Operating Power: DC8-30V/2W
- Temperature: 0~ +50°C
- Humidity: <<\$5% RH
- Relay: AC220V/3A or DC30V/3A
- Relay Life Span: 10⁵
- Dimension: 96*48*82(mm), Mounting hole: 92*44(mm)

2) Panel



3) Key setting

a) During the stage of measurement, Press 🔊 to select reading from current (A), V, and AH.

b) By pressing 🛇 for over 3 sec, it "beep" for 1 sec and system enter 'diagnostic mode".

c) By pressing ∞ for over 3 sec, it beep for 1 sec, it clear AH and timer

d) By pressing \bigotimes for over 3 sec, it beep for 1 sec, it clear timer

Parameter setup: Press , enter pass code: 0036

l l				Fig2			
Full scale value	Decimal point	Display	Resolution	0	- Ra	2	3
0500	2	5.00	10nA				
5000	3	5.000	InA	81 0	d 9	§	8



Setting

- Press (w) to enter programming mode
- Input Password using ∅, ∅, ∅
- Press ∅, ∅ to set parameters
- Press to save change

Measurement setup

Symbol	Name	Definition	Selection/Range	Default	Faran
8-50	A-Sn	input Guirent Bots	5A/1A/75oV	5A	1
RPUL	APvL	"Zere A Input" cisplay	-1999~9999	0.000	2
RPUH	APvH	Full cools display (A)	-1999~9999	5.000	3
Adot	Adot	Decimal point pos. (A)	0-3	3	4
<u>ы•5 п</u>	U-Sn	Input Voltage Sets	500V/100V	500V	5
UPUL	UPvL	"Zero 7 input" display	-1999~9999	000.0	
uPoH	UPvH	Full scale display (V)	-1999~9999	500.0	1
udak	Udot	Decimal point pos. (V)	0-3	1	
FILE	FILt	Digital filtering index	0-3	0	6
End	End	End of setup			

- Current Input (A-Sn): Input range 5A (-1A~5A), 1A(-0.2~1A), 75mV(shunt value: -15~75mV). Default: 5A
- Zero current input(APvL): Tell the meter what to display when the input current is "0.0A". It serves as offset adjustment. Default: "0000"
- *3. Full scale current display: (APvH): Tell the meter what to display when input current is at max. Resolution varies with this setting.
- *4. Decimal point position: Can be set arbitrary
- *5. Voltage Input(V-Sn): Voltage input range 500V (-100~500V); 100V(-20~100V)
- *6. Digital filtering Index: Range: 0,1,2,3 where 0 means no filtering. 1=weak, 2=medium, 3=strong. The higher the index, the more stable of the display but w/ slower refresh rate
- (B) Power Alarm Parameters(Press (20), enter password "0001")

Symbol Name		Description	Range/Default	Default	
11	J1	Relay J1	A/V/AH	A	
BH I	AH1	Relay J1 engaged	-19999~9999	10	
ALI	AL1	Relay J1 disengaged	-19999~9999	20	
SE	J2	Relay J2	A/V/AH	A	
BH5	AH2	Relay J2 engaged	-19999~9999	30	
ALS.	AL2	Relay J2 disengaged	-19999~9999	40	
End	End	End			

