

INSTRUCTION MANUAL

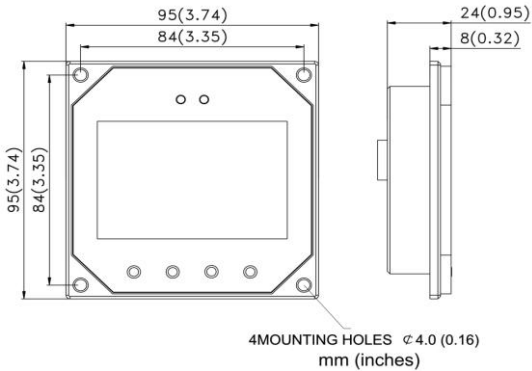
----- METER (MT-1) for EPIPDB-COM series controller



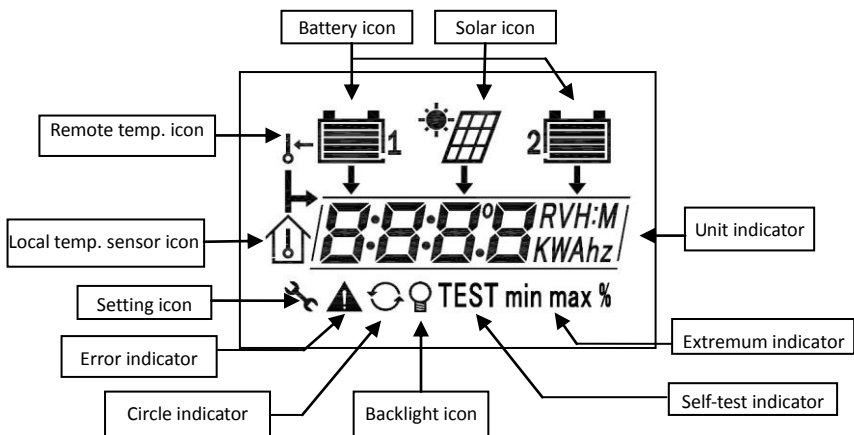
CONTAINS

Wall mounting board, can be mounted in or on the wall. With 10 meter cable

MOUNTING DIMENSION



REMOTE METER DISPLAY



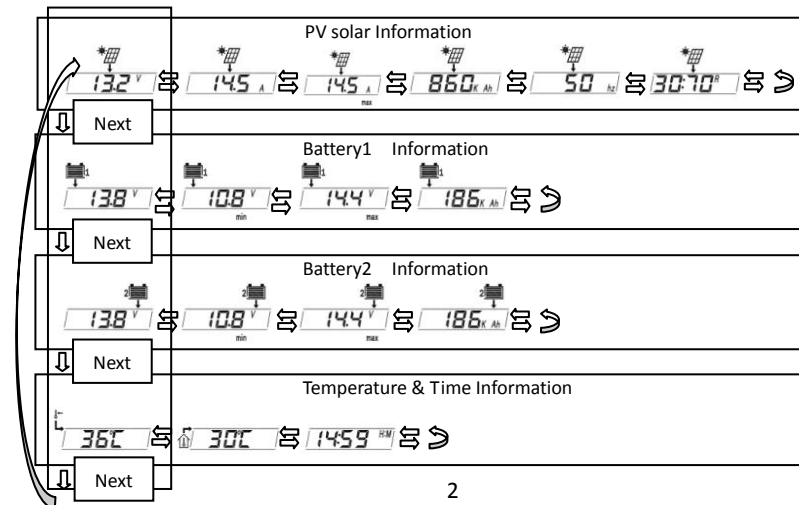
LEDs on the top of the LCD

1. Charging led: green on, charging.
2. Error led: red on, error.

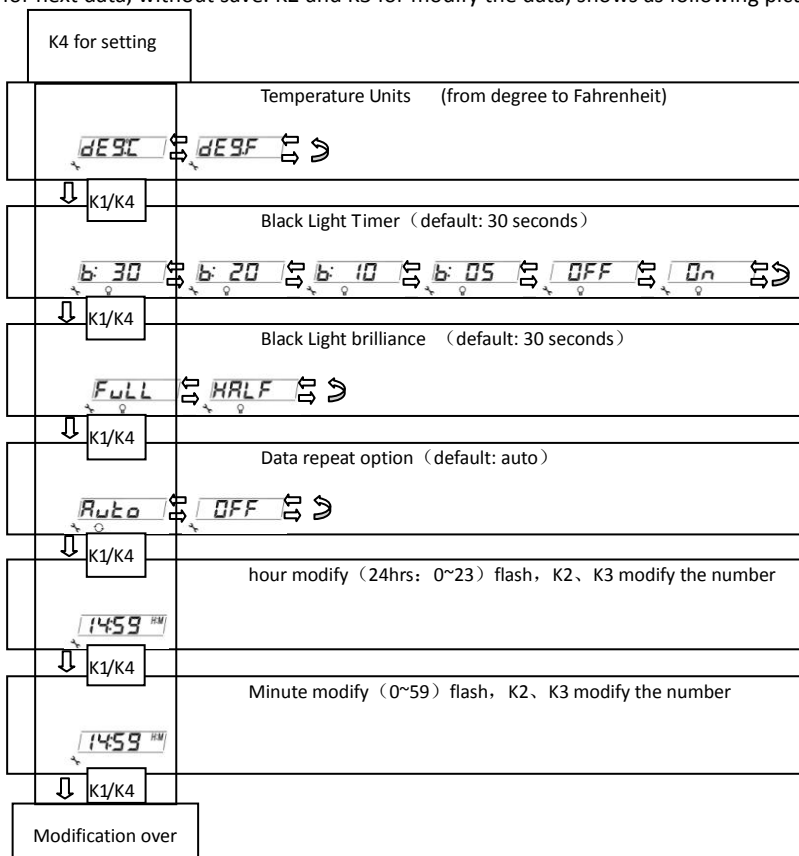
REMOTE METER OPERATION INSTRUCTION

The key (from left to right) is: K1-K4, or Next \downarrow , Left \leftarrow , Right \rightarrow , Set \circ .

The meter display as following order: Solar panel, battery 1, battery 2, other data as four team data. Use K2 or K3 to check the data between the teams. Symbol \circ is the repeat between the team 1 and team 4. K1 is the key for repeating the data of the team. Data shows as picture 2.



Data setting instructions: on reading display, press K4 for setting and next data, then save it. K1 for next data, without save. K2 and K3 for modify the data, shows as following picture 3.



1. Temperature option

- ✧ dEg.°C Celsiur scale(°C)
- ✧ dEg.F Fahrenheit(F)

2. Backlight instruction: press any key while its connected, the backlight will be on. And set the backlight timer on setting mode. Backlight options:

OFF: backlight is off all the time
B: 30 backlight on for 30 seconds
B: 10 backlight on for 10 seconds

On: backlight is on all the time in any case.
B: 20 backlight on for 20 seconds
B: 05 backlight on for 5 seconds

Note: backlight timer calculated as the last key press. And backlight has 2 class:

FULL: high bright

HALF: low bright

3. Data repeat: auto or manual, options as following

Auto: Each team data will repeat every 3 seconds, K1 for next team. K2, K3 for data repeating in the team.

OFF: Data will not repeat automatically, unless press K2 or K3, or K1 for the next team data.

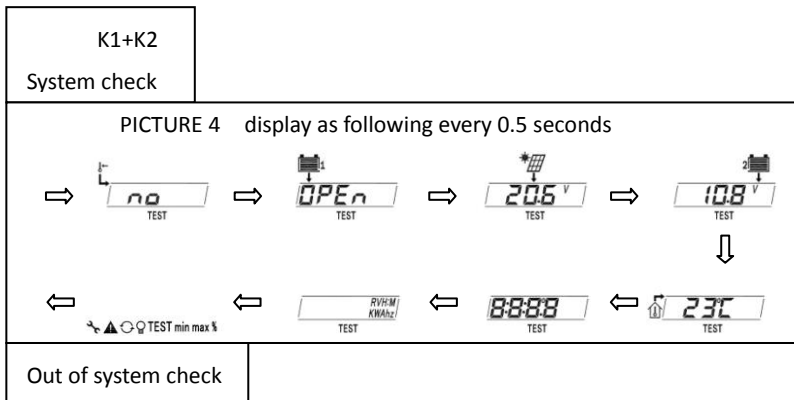
4. Clock adjust: hour, minute flash, press K2, K3 modify the data, press K4 for save it.

System checking: at any time, press K1+K2, it will check and display the related data automatically. Details as PICTURE 4. If there is NO, means there is no connection.

If the connection is correct, the related data will be displayed.

If no remote temperature sensor is connected, the meter will show thermometer and NO.

If connection is correct, it will show the data it detects. **OPEn** means no battery connection or over voltage, the data will be displayed while the connection is right.




Data erase to 0: at any time, press K3+K4, the data will be erased to 0, such as max, min, Ah. AH accumulate from 0.

OTHER INSTRUCTION

Specifications:

Rated voltage:	12V
Min voltage (suggest):	8.0V
Strong backlight on:	<23mA
Low backlight on:	<20mA
Backlight and LED indicator off:	<17mA
Operation temperature:	-40°C ~ +60°C
LCD operation temperature:	-10°C ~ +40°C
Humidity:	≤95% N.C.
Communication cable:	RJ45 (8PIN), 10 meter

Trouble indicator  : following occasion may occur, check the connection. And the symbol will disappear automatically when it resume.

1. While one battery disconnect, or open circuit, or over voltage.
2. The remote temperature sensor is no probe.
3. Over charging current.
4. Solar PV short-circuit.

Telecommunication port

While the meter run by individual power or the communication cut off, it displays 4 pieces of “_”. Press key, no answer. The display will resume while communications is on.

Note: the data displayed got from the communication, check if the cable correct while the data is error, or if there is strong interference. Too long cable may bring mistakes too. The data will update every 20 seconds.

Battery capacity strip flash

Each strip equals to 20% of battery capacity. The over part will be showed as flashing. For example, the first trip flash, the battery capacity is 1-19%, the second trip flash, it is 21-39%, etc.

Note: the calculation takes fully charged voltage as 100%, and over discharged as 0%. All is based on battery voltage, not the real battery capacity.

Battery capacity AH

AH is the accumulation of charging, each one minute will count. The data is not accurate while the charge current is too small. The min. is 1AH, means 1amps charging for 1 hour, AH comes to show.

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