

## Basic Troubleshooting

### \*LED not displayed

Check the power source is correct voltage (12VDC) and correct polarity.

### \*Display appears scrambled

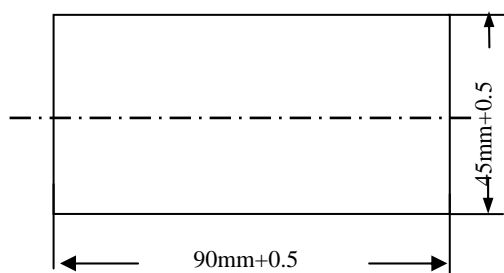
Check that all connections are correct and tight.  
Check that there is no harsh interference nearby.

### \*Caution

Do not disassemble

## PANEL CUTOUT SIZE

Panel Cutout



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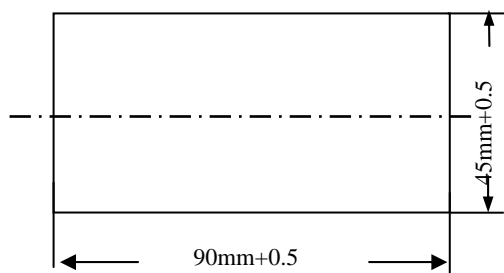
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MB4101 DC VOLTMETER WITH RS485

**MANUAL**

INTELLIGENT CONTROL METER

**XIELI**

ISO9001-2008 & CE

**Shaanxi XIELI Photo Electric Instrument Co., Ltd**

Add: No.2 Xinke Rd, Eastern Development Zone,  
Xi'an 710043, Shaanxi, CHINA

Tel: +86-29-82622375 Fax: +86-29-84023638

Email: [info@xieli-china.com](mailto:info@xieli-china.com)

[http://www.xieli-china.com/a/index\\_en/index.html](http://www.xieli-china.com/a/index_en/index.html)

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## MB4101 DC VOLTMETER WITH RS485

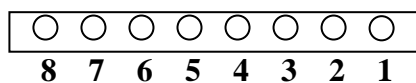
### FEATURES:

Ultra-bright LED display  
15.00mm digital height  
Blue/Red displays available  
Low cost high accuracy  
Easy to install

### OPERATION SPECIFICATIONS:

Power Supply	12VDC 500mA
Measure Range	DC199.99mV
Resolution	0.01V
Impedance	100MOhm
Max Input	DC5V
Accuracy	±0.5%+3 digit
Sample Frequency	400ms
Operating temperature	0°C~60°C
Storage Temperature	-20°C~80°C
Relative humidity	20%~80%
Dimension	W96mm x H48mm x D87mm
Panel Cutout	90mm×45mm

### WIRING DIAGRAM:



PIN 1: RS485 output    PIN 2: RS485 output  
PIN 3.5: Voltage Signal Inputting  
PIN 4,6: Blank  
PIN 6: Blank  
PIN 7: Power Supply -12VDC Negative  
PIN 8: Power Supply +12VDC Positive

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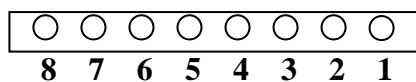
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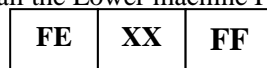
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## RS485 Communication Protocol:

9600bps

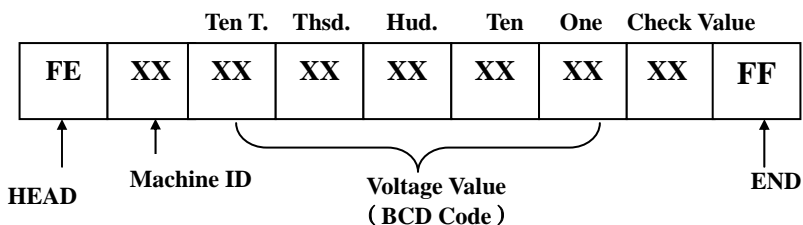
Start: 1 Data: 8 Stop: 1 Parity check: None

PC call the Lower machine Format



↑                    ↑                    ↑  
HEAD                    Machine ID                    END

Meter send Current Value to Up equipment



Check value =Ten Thousand place+ Thousand place+ Hundred place + Ten place + One Place

### Notice:

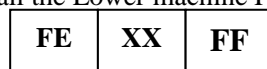
- I. Use twisted signal cable, or shielded anti-jamming signal cable.
- II. Avoid strong electromagnetic interference.
- III. It should guard against the strong vibration and shock
- IV. Calibrating regularly

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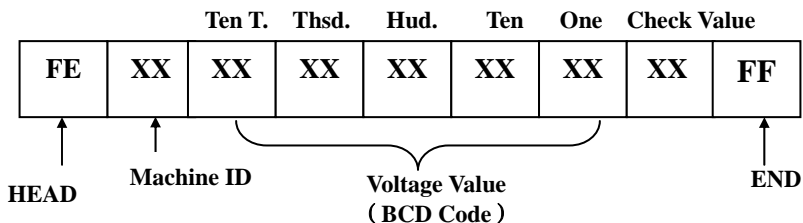
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