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1. SPECIFICATIONS

- 1.1. Output signal range: $-3.1000 \sim +3.1000 \text{mV/V}$
- 1.2. Minimum step length: 0.0001mV/V
- 1.3. Linearity: $0.01\% \text{FS}$
- 1.4. Display: LCD (122x32 dot-matrix, with back light, Black characters on green light background)
- 1.5. Current Consumption: 80mA DC (with back light)
 40mA DC (with back light).

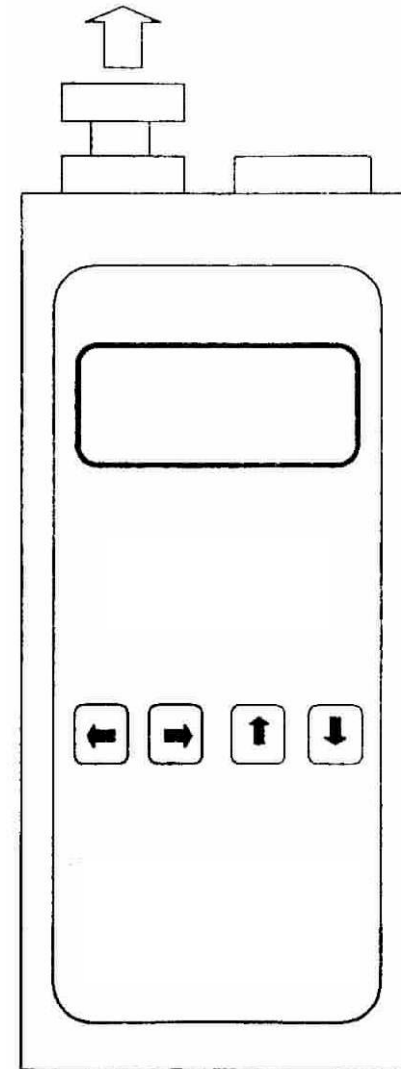
2. FEATURES

- 2.1 Menu Mode
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- 2.3 Display Back-light
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3. PANELS

3.1 Front Panel

To Indicator



Black Panel:

RS232

LOADCELL

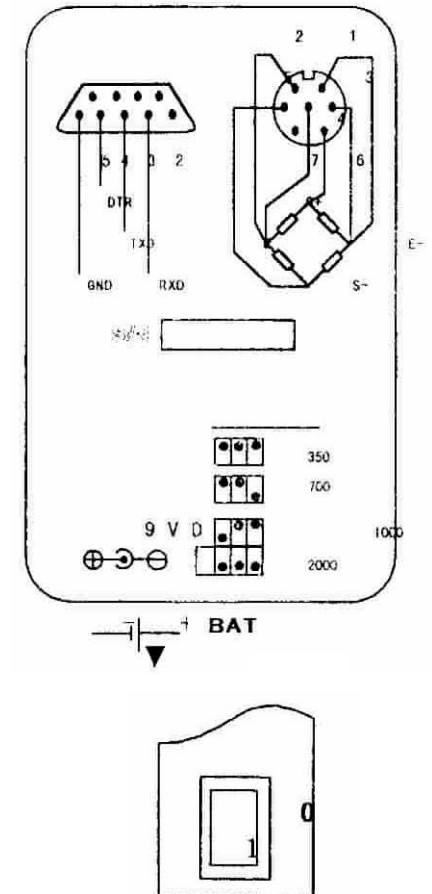


FIGURE 1

3.2 Dimension: 170x75x300 (mm):

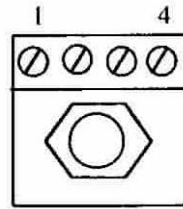
3.3 Signal Output Cable Wiring:

Pin1: +Excitation (+E)

Pin4: -Excitation (-E)

Pin2: +Signal (+S)

Pin3: -Signal (-S)



3.4 RS232 serial output (9 pin) wiring:

2 → RXD

3 → TXD

4 → DTR

5 → GND

3.5 Back panel DIP switch for input resistor setting:

Upper is ON Lower is OFF:

Input resistance (Ohm)	Switch1	Switch2	Switch3	Switch4
350	none	ON	ON	ON
700	none	ON	ON	OFF
1000	none	OFF	ON	ON
2000	none	OFF	OFF	OFF

3.6 Recharge time for battery: 10hours.

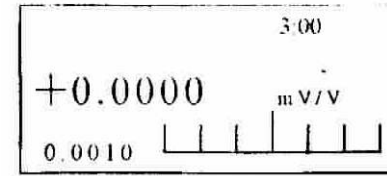
4. OPERATION

4.1 Power on and initial display:

U = 8.5V
PA8201 [V1.0]
Yuyao Pacific Auto-control

Put power supply switch to 1(ON) (**see Fig.3**) and press

then shows in the following automatically alert seconds:



4.2 Normal operation mode:

4.2.1 The display in normal operation mode is as Fig.5:

Signal area (Top left corner):

Display strength of output signal.

For example: If display is 1.000mV/V and excitation voltage is 10V, then the output voltage is 10mV.

Timer for auto power off (Top right corner):

Simulator will power off automatically, when timer counts down to zero and sounds alarm for a period of no-key press.

Step length area (Bottom left corner):

Adjust a different output signal when press ↑ key (increase) ↓ 0 key (decrease).

Bar-graph area will increase a step when the output signal increases 0.1000mV/V.

4.2.2 Function keys:

↑ Press this key once to increase signal one step:

↓ Press this key once to decrease output signal one step:

Press this once to increase output by 10 steps:

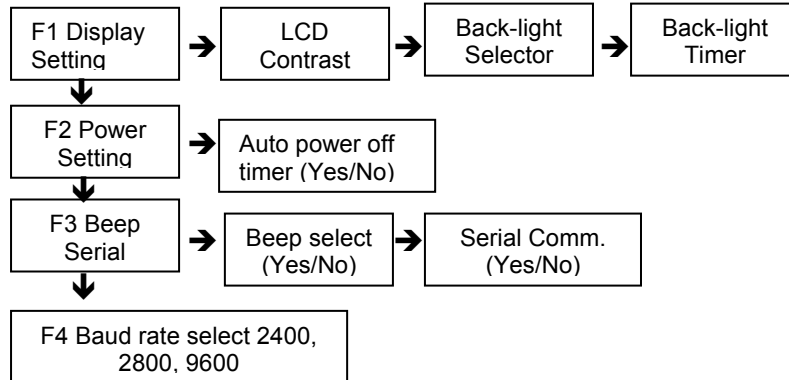
Press this key once to decrease output by 10 steps:

Press this key and hold, the output signal will zero after beeping 3 times;

+ Press these two keys simultaneously to enter menu setting mode.

5. FUNCTION MENU MODE

5.1 Selection of function menu:



5.2 Function key in menu mode

← → Press these two keys simultaneously in normal operation Mode to enter menu mode.

← Press this key to select sub-menu (F1~F2):

→ Press this key to select a function in a sub-menu:

↑ or ↓ Press this key to change the selection of functions.

5.3 Display in function menu mode:

5.3.1 F1 (for display):

Note: Cursor “→” in figures as follows is indicating the selection.

(1)Indicator	3:00
Contrast:	1
Back Light:	Yes
→B.Light off:	3 sec

Fig. 7

Press ←key to enter F2.

5.3.2 F2 (for power):

(2)Power	3:00
→ Auto-down:	3 min

Fig. 8

Press ← key to enter F3.

5.3.3 F3 (for keyboard):

(3) keyboard	3:00
-> Beep on touch:	Yes
Auto-back:	Yes

RS232 selectable

Fig. 9

Press ←key to enter F4.

5.3.4 F4

RS232	3:00
→ Baud rate	9600

Fig. 10

6. RS-232C COMMUNICATION

6.1 RS232C wiring:

Signal	Generator	Serial		
X2	Line	25pms	9 pins	Line
3	TXD	3	2	RXD
2	RXD	2	3	TXD
4	DTR	20	4	DTR
5	GND	7	5	GND

6.2 RS-232C parameter settings:

Baud rate: 2400/4800/9600:

Check bit: None

Stop bit: 1:

Data bit: 8.

6.3 Communication Protocol:

Sign

ESC 27 (decimal):

CR 13 (decimal):

LF 10 (decimal)

XXXX-----signal, in hexadecimal:

xxxx-----step length, in hexadecimal.

6.4 Communication Rules:

Signal transmit range: $-3.1000 \sim +3.1000 \text{mV/V}$

Step length transmit range : $0.0001 \sim 1.0000 \text{mV/V}$

Decimal point is fixed, none transmit.

Characters transmitted are "0, 1, 2, 3, 4, 5, 6, 7, 8, 9, S, s, :"

Transmit from higher byte to low, the front is for signal; the following 5 bytes are for step length.

For example:

Signal is +2.1234 and step length is 0.1000, then transmit
as below ESC S:+21234 s: 01000 CR LF