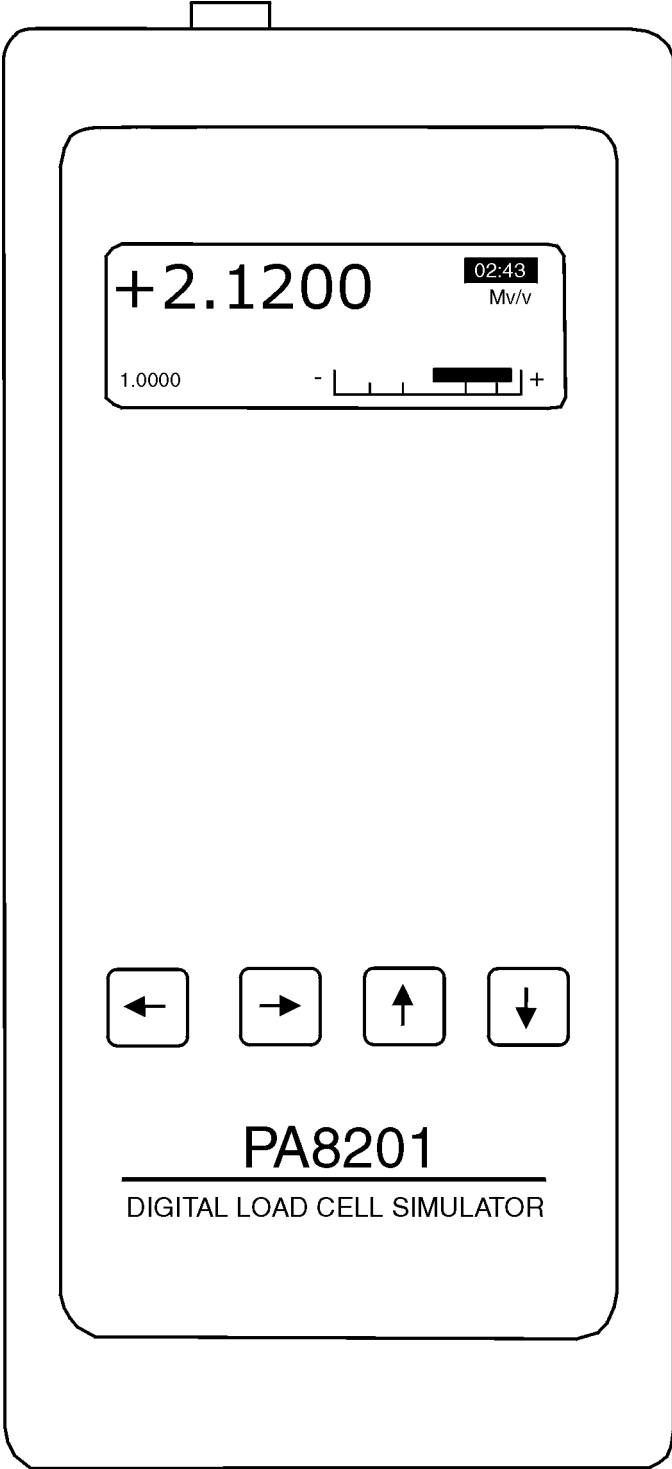


Load Cell Simulator SG-PA8201



Description

Model SG-PA8201 is a hand held digital load cell simulator which can be used to simulate load cell outputs in the range -3.1mV/V to $+3.1\text{mV/V}$. The signal output is increased and decreased via the front panel pushbuttons.

For example when connected to a load cell display which provides 10VDC excitation the SG-PA8201 will allow the output to be varied from -31.000 to $+31.000$ mV.

A numerical and bargraph indication of output is provided on the display. The display is also provided with selectable on/off backlight and auto display off timer which helps conserve battery power.

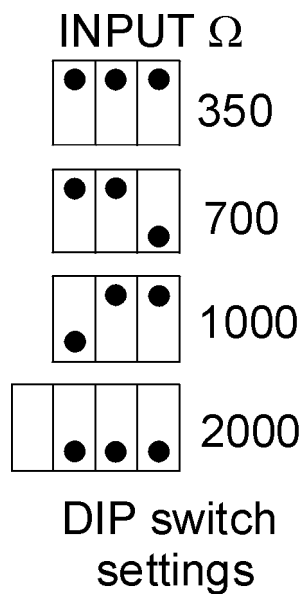
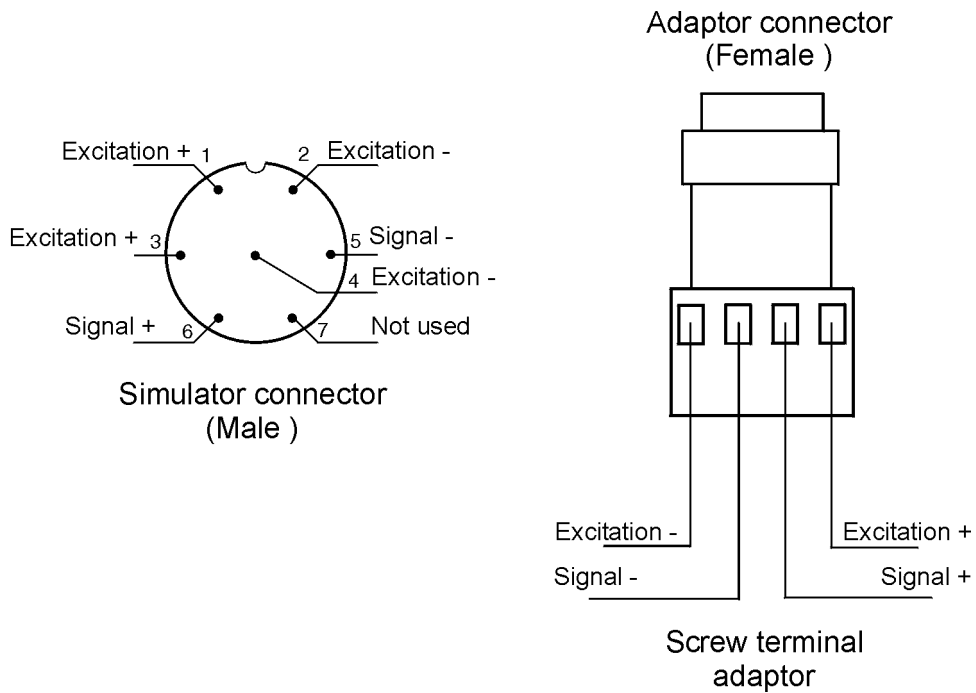
The SG-PA8201 is supplied with a rechargeable 9V battery and plug in charger.

Specifications

Output:	-3.1000 to $+3.1000\text{mV/V}$
Excitation	5 to 12VDC
Accuracy/non linearity:	0.01% of full scale with 10VDC excitation
Display:	LCD black characters with backlight available
Supply:	9V rechargeable battery
Output resistance:	DIP switch selectable 350Ω , 700Ω , 1000Ω or 2000Ω
Dimensions:	170 x 75 x 30 mm
Weight:	480 gms


Connections

The simulator connection is on the base of the SG-PA8201 and the DIP switches are on the back of the SG-PA8201.
The screw terminal adaptor is included for ease of connection.







Operation

○ Power on & initial display



Turn power on switch to 1(ON) and press the  key. Display showing software level, battery level & other details shows for 3 seconds then goes to the normal operation mode display.

○ Normal operation mode display

The following items are displayed in the normal operation screen

- TOP LH corner - output level. For example if this shows as 1.0000 mV/V and excitation voltage is 10VDC then the output voltage is 10mV.
- TOP RH corner - Auto power off timer. Simulator will power off when timer counts down to zero and sounds the alarm.
- BOTTOM RH corner - Bar graph area. The bar graph will increase a step when the output signal increases by 0.1000mV/V. The signal is increased or decreased using the  and  buttons. The resolution for increase or decrease can be changed using the  or  buttons.

○ Function Menu Mode

To enter function mode press the  and  buttons **together**.

The functions and settings available in Function mode and shown in the flow chart below.

