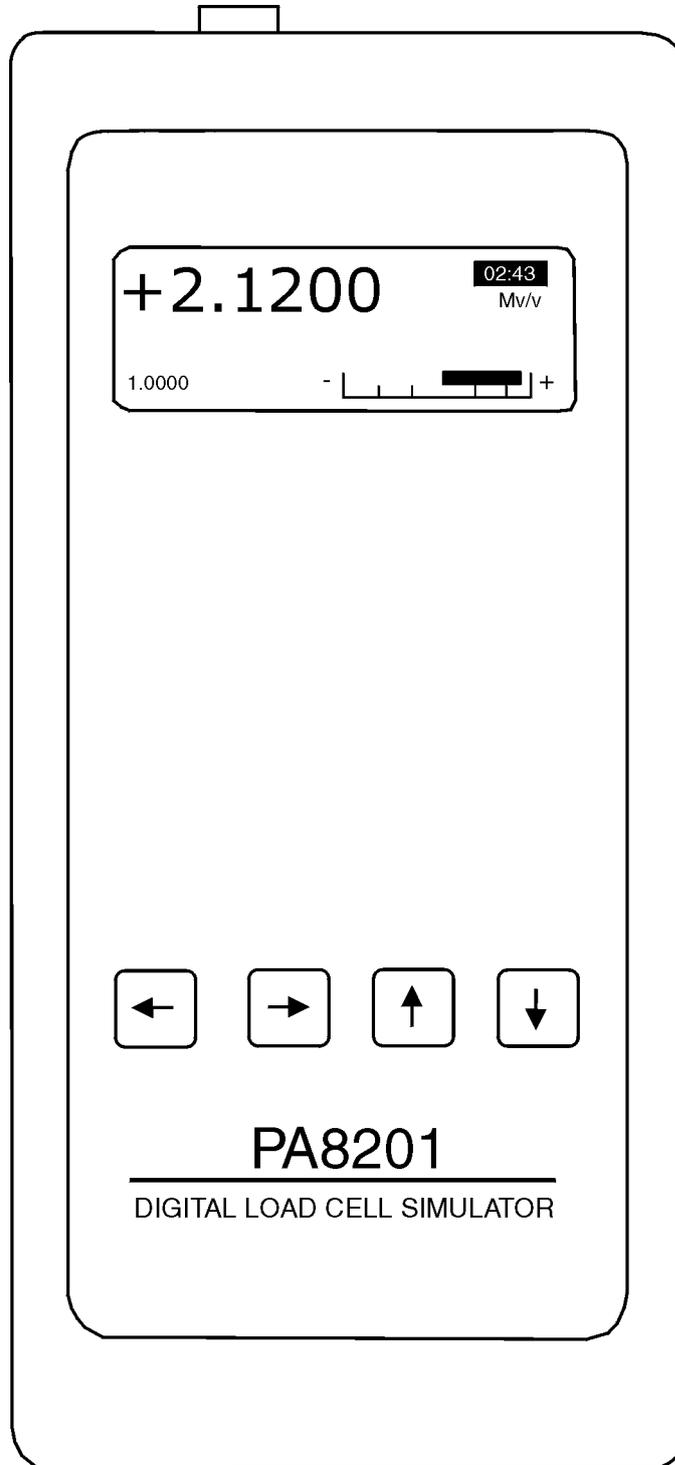


Load Cell Simulator SG-PA8201



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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.

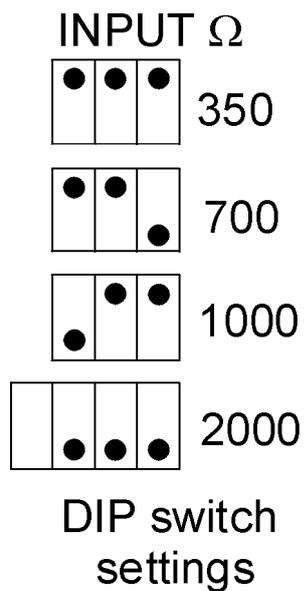
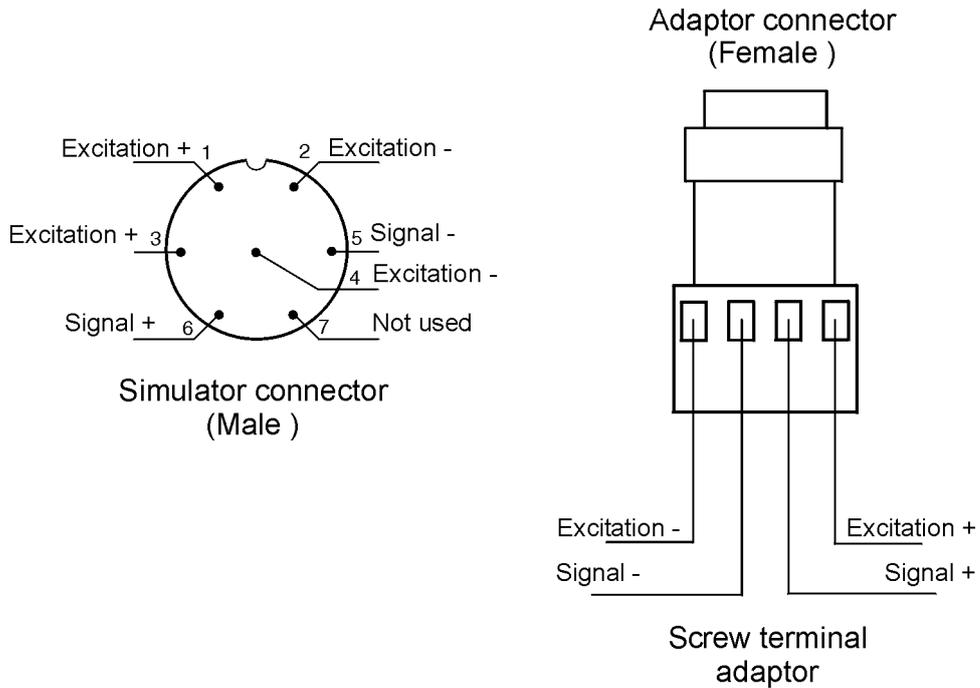
Specifications

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.

