

# Load Cell Tester

Four channel tester for monitoring 2,3 or 4 load cells simultaneously in any weighing system



Ideal for service, load cell diagnosis and weighing system balancing.

Fully portable, weighing only 500 grammes

Internal re-chargeable battery with automatic switch off

Separate battery charger supplied

Displays individual load cell output in mV/V, weight/force values or %

Reduction of down time by quick fault diagnosis

Battery level display

3 metre cable with spring terminals for load cell connection

A portable test unit designed for the simultaneous inspection of up to 4 load cells. Weight distribution adjustments on weighing systems, which can not be done using a digital multi-meter which only sees one load cell at a time, can be performed quickly and easily. The load on the weighing system can also be monitored via two alternative percentage values which display the actual load distribution on each load cell and the percentage of each load cell's nominal capacity.

***Thames Side - Maywood***

...your specialist load cell partner

# technical specification sheet

## Load Cell Tester

<b>Power Supply:</b>	6v DC (internal re-chargeable battery)
<b>Power Consumption:</b>	180 mA (4x350 ohm load cells)
<b>Operating Temperature:</b>	-10°C to +50°C
<b>Storage Temperature:</b>	-20°C to +70°C
<b>Connections:</b>	15 pin Sub-D connector to individual spring terminals for load cell cable 2 pin jack for battery charger
<b>Dimensions:</b>	190 x 130 x 55 mm (L x H x D)
<b>Weight:</b>	500 g
<b>Protection:</b>	Sealed to IP54
<b>Enclosure Material:</b>	Black ABS plastic
<b>Display:</b>	LCD alphanumeric backlight 16 x 2 characters (height 8mm)
<b>Keyboard:</b>	4 keys. On/Off switch on keyboard
<b>Load cell excitation voltage:</b>	5 Vdc/60 mA (max 4 x 350 ohm load cells)
<b>Linearity per channel:</b>	<0.01% of Full scale
<b>Internal Resolution per channel:</b>	24 bit
<b>Weight display resolution per channel:</b>	Up to 50,000 counts
<b>Input signal range per channel:</b>	-5 mV/V to +5 mV/V
<b>Decimal digits:</b>	up to 3
<b>Low battery warning message:</b>	When voltage drops below 5.9 V
<b>Auto switch off:</b>	When voltage drops below 5.5V
<b>Memory program code:</b>	60 Kbytes FLASH re-writable on board via RS232
<b>Data memory:</b>	4 Kbytes

## Display Options

Single weight values detected by the load cells, expressed in the selected engineering unit. (g, kg, lbs, t, N, kN)	<b>k</b>	0.123	0.456
	<b>g</b>	0.345	0.288

Individual mV/V signals from the load cells	<b>mV</b>	0.1234	0.4567
	<b>V</b>	0.3456	0.2888

Percentage of the load on each load cell proportional to the total weight	<b>P</b>	26.8%	35.2%
	<b>D</b>	21.6%	16.4%

Percentage of the load on each load cell compared with its nominal capacity	<b>P</b>	1.8%	12.2%
	<b>T</b>	3.6%	7.7%

*In the interests of continued product development, Thames Side-Maywood Ltd reserves the right to alter product specifications without prior notice.*

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