



✓ Rugged ABS enclosure with rubberized case for drop protection

✓ Stand-alone, hand-held device for full trouble shooting of load cells

✓ Alphanumeric 16 x 2 lines display

✓ Continuous signal reading for checking linearity and repeatability

✓ Easy-to-Use industrial 8-pin screw terminal

Standard Features

- » Capable of checking all common types of 4 or 6 wire load cells at all rated gain outputs
- » Provides information about bridge resistance and integrity of the load cell
- » Checks physical distortion to the load cell (possibly caused by overload, shock load or metal fatigue)
- » Checks the insulation resistance of the load cell that can point to moisture or chemical ingress
- » Continuous signal reading allows checking linearity and repeatability
- » Hand-held design and battery operated enables use in a laboratory or in the field



Technical Specifications

Specifications	Load Cell Tester
	Model: LCT-Ultimate
Testing Features	
Input and Output Resistance	Up to 5000 Ω at 0.5 Ω resolution
Sense Resistance (for 6-Wire Load Cells)	Up to 500 Ω at 0.1 Ω resolution
Maximum Insulation Resistance	> 5000 Mega Ω
Minimum Insulation Resistance	< 10 Mega Ω
Minimum Bridge Resistance	85 Ω (4 off 350 Ω sensors in parallel)
Load Cell Output (% FS)	± 250 % at 0.01 % resolution
Gain Adjustment	0.1 to 5.0 mV/V at steps of 0.01
Hardware and Accuracy	
Resistance Accuracy	± 0.5 Ω
High-Resistance Accuracy	± 10 %
Load Cell Output Accuracy	0.1 %
Bridge Testing	1.25 VDC
High Resistance Testing	10 VDC
A/D Resolution	16 bit
General	
Power Source	4 AA batteries
Connector	8-pin screw terminal
Enclosure Material	ABS
Display	16 x 2 alphanumeric
Dimensions	
Height x Depth x Width	6.0" H, 1.1" D, 3.1" W
Weight	8.8 oz (250 g)



Wiring

Sensor Connection	
Pin	Description
Pin 1	Excitation +
Pin 2	Sense +
Pin 3	Signal +
Pin 4	Signal -
Pin 5	Sense -
Pin 6	Excitation -
Pin 7	Screen
Pin 8	Body