



The Ultimate Load Cell Tester Model LCT-Ultimate

The **LCT-Ultimate** is a stand-alone hand-held device that was especially designed for full trouble shooting of strain-gage based load cells.

The **LCT-Ultimate** can check all common types of standard load cells that are available in the market: 4 or 6 wires @ all rated gain outputs.

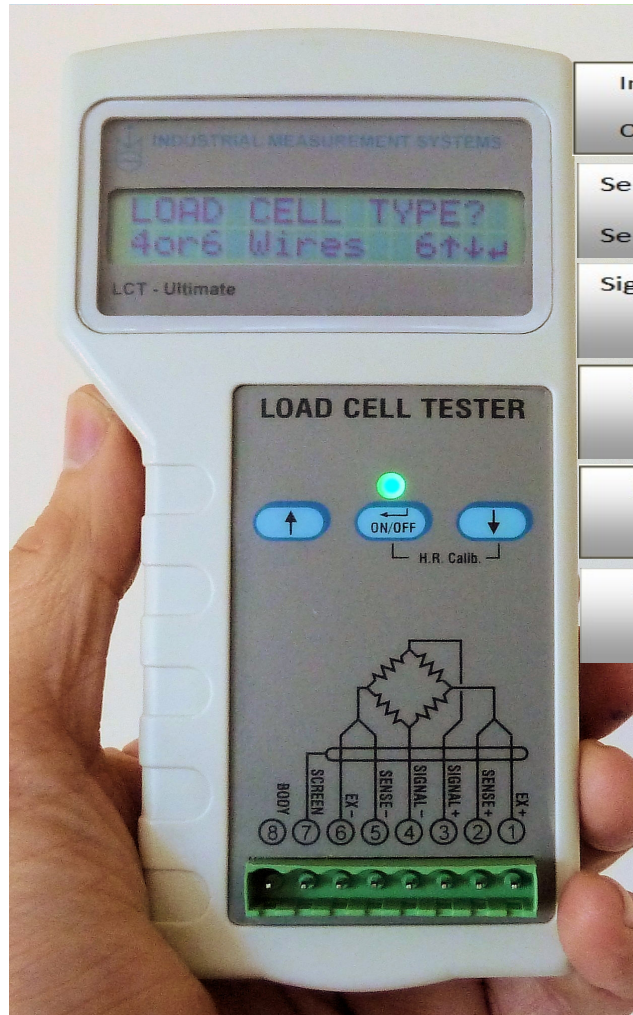
It provides the user with all essential data needed about the tested load-cell: bridge resistance and integrity, physical distortion (possibly caused by overload, shock load or metal fatigue) and checks the insulation resistance that can point to moisture or chemical ingress.

Main Features:

- * Fast testing of load cells and scales
- * Can be used to check multi load-cell scale alignment.
- * Continuous signal reading allows checking linearity and repeatability. (Input resistance >175 ohm)
- * Very friendly, full test takes only 5 seconds

Specifications:

- * Input and Output resistance: up to 5000 ohm at 0.5 ohm resolution
- * Sense resistance (for 6 wire L/C): up to 500 ohm at 0.1 ohm resolution
- * Insulation resistance: Max:> 5000 Mohm
Minimum: <10 Mohm
- * Load cell output in percentage of full scale: $\pm 250\%$ at 0.01% resolution (input resistance >175 ohm)
- * Gain adjustment: 0.1-5mv/V steps of 0.01



Input = 511.5Ω
Output=350.0Ω
Sense+ = 1.0 Ω
Sense- = 0.5 Ω
Signal output +12.45%
Shield to Brdg ≈ 4700MΩ
Body to Brdg ≈ 2700MΩ
Shield to Body ➤ 5000MΩ



Hardware and Accuracy:

- * Bridge testing: 1.25Vdc
- * High resistance testing: 10Vdc
- * A/D resolution: 16bit
- * Resistance accuracy: ± 0.5 ohm
- * High-resistance accuracy: $\pm 10\%$
- * Load Cell output accuracy: 0.1%

General:

- * Power source: 4 AA batteries (Not supplied)
- * Connector: 8 pin screw terminal (supplied with the unit).
- * Enclosure material: ABS
- * Display: 16X2 alphanumeric
- * Size: 150mm x 80mm x 28mm
- * Weight: 250gr