# LCT-U

Thames Side

# ADVANCED DIAGNOSTIC LOAD CELL TESTER




The advanced Load Cell Tester Model LCT-U is a stand-alone hand-held device specially designed for fast, comprehensive troubleshooting of strain gauge load cells. The LCT-U can quickly diagnose problems with all common types of load cell available today, including 6-wire load cells (with sense wires).

The LCT-U provides the operator with all the essential data about the load-cell being tested, including the bridge resistance and integrity, physical distortion (possibly caused by overload, shock load or metal fatigue) and insulation resistance (which can highlight moisture or chemical ingress).

- Fast, accurate testing of load cells and scales – full test complete within 5 seconds
- Very user friendly – pin assignment is printed on front of tester
- Coloured LEDs highlight suspicious readings
- Can check alignment of multiple load cell scales
- Operated by standard batteries for portability
- Continuous signal reading allows for checking of linearity and repeatability
- Can check for physical distortion of a load cell
- Works with 4-wire or 6-wire load cells
- Rugged ABS enclosure and rubber cover
- Lightweight
- Ideal tool for installation/commissioning engineers

CE

# LCT-U

*technical specification...*






## LCT-U Advanced Load Cell Tester

| Specifications | |
|---|---|
| **Bridge testing voltage** | 1.25 VDC |
| **High resistance testing voltage** | 10 VDC |
| **A/D resolution** | 16 bit |
| **Bridge input and output resistance** | Up to 5kΩ at 0.5 Ω resolution |
| **Sense resistance (for 6 wire load cells)** | Up to 500Ω at 0.1 Ω resolution |
| **Resistance accuracy** | ± 1 Ω |
| **Insulation resistance** | Maximum > 5 GΩ; Minimum <10 MΩ |
| **High resistance accuracy** | 10% |
| **Load cell output in percentage of full scale (input resistance > 175 Ω)** | ± 250% at 0.01% resolution and 0.1% accuracy |
| **Gain adjustment** | 0.1 to 5 mv/V (in steps of 0.01) |

| Additional Data | |
|---|---|
| **Connector** | 8-pin with screw terminals (supplied with the unit) |
| **Power source** | 4 x Type AA batteries (not supplied) |
| **Display** | Alphanumeric: 16 characters, 2 lines |
| **Size** | 150 mm x 80 mm x 28 mm |
| **Weight** | 250 grams |

For further information, including a video user guide, please visit our website www.thames-side.com

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MECO
MEASUREMENTS & CONTROLS

Via Enrico Cernuschi, 4 20129 Milano
Tel. +39 02 4 692 680 Fax +39 02 4 694 602 info@mecoitalia.it www.mecoitalia.it

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*Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.*