

Hand Held Load Cell Indicator LC340

Function: The LC340 is a hand held indicator that can be programmed for use with one or more standard load cells or strain gauges.

The LC340 can be supplied with one, two or three load cells for use as individual cells or cabled for parallel operation. If the load cells are supplied for individual use, the LC340 will auto-detect which load cell has been attached and select the relevant calibration from a look-up table held within the instrument. The load cells can be selected from a range comprising S-Type In-line, Pancake, Button, Cylindrical and others with rated loads from 20 Kg through to 6 tonnes.



Sensors -
LOAD CELLS

The display shows the Force applied to the load cell. If the load cell is in compression the displayed value will be positive and if in tension the displayed value will be negative. The keypad on the front of the instrument has ON/OFF, RESET, lb/Kg, MIN and MAX buttons and a Tare button.

The meter is 6 Volt (4 x AA{1.5V}) battery powered. The unit's power-up configuration has an **auto power-off** after 10 minutes if no key-pad strokes have occurred. This feature can be disabled on power-up if required for long term monitoring. Please note that if the LC340 is used with three load cells cabled in parallel, for example, there will be a considerable drain on the batteries. One of the options for the LC340 is a plug for external powering via a mains/DC transformer. The batteries supplied with the LC340 are normally alkaline but can be Ni-Cad re-chargeable batteries, as an optional extra.

Each of the load cells supplied will have its own certificate of calibration and the LC340 is factory calibrated using the individual details from this certification. If required, we can also, as an optional extra, supply the LC340 and load cell(s) with a Calibration Certificate traceable to national standards.

SPECIFICATIONS

INPUTS:

Example of Load Cell Types

S-Type In-Line - ST Series

Non-Linearity:

< ±0.017% of rated load

Repeatability:

< ±0.01% of rated load

Rated Loads:

50, 100, 250 and 500 Kg, 1, 2.5, 5, 10, and 20 Tonnes

Target - LC-256

Combined Error - typically

Non-Linearity & Hysteresis:

±0.05% of rated load

Repeatability:

±0.02% of rated load

Rated Loads:

40, 80, 125, 250 and 500 Kg
1, 2, 4 and 6 tonne

INPUTS (CONTINUED):

Further Example of Load Cell Types

Button - LC-259

Non-Linearity:

±0.5% of rated load

Hysteresis:

±0.5% of rated load

Repeatability:

±0.05% of rated load

Rated Loads:

25, 50 and 100 Kg

SUPPLY:

Power Supply Voltage

6 Volt DC
(4 x 1.5 Volt AA Batteries)
Alkaline provided as standard

Optional Extras

- 1) NiCad rechargeable batteries
- 2) External 6 Volt DC supply

GENERAL:

Accuracy of the LC340 Meter

< ±0.02% ±1 digit for full load

Accuracy including Load Cells

To be stated as a function of the Load Cell used

Operating Temperature Range

Electronics: 0 to +45°C

Storage Temperature Range

Electronics: -20 to +60°C

Operating/Storage Humidity Range Electronics

5 to 95% RH non-condensing

Weight

LC340 meter 1.1 Kg

ORDERING DETAILS

- a) LC340/1 Load Cell / Strain Gauge meter complete with one load cell. Meter supplied in a durable plastic carry case and fitted with alkaline batteries
- b) LC340/2 Load Cell / Strain Gauge meter complete with two load cells. Meter supplied in a durable plastic carry case and fitted with alkaline batteries - please add the suffix P (i.e. LC340/2P) if the load cells are to be connected in parallel
- c) LC340/3 Load Cell / Strain Gauge meter complete with three load cells. Meter supplied in a durable plastic carry case and fitted with alkaline batteries - please add the suffix P (i.e. LC340/3P) if the load cells are to be connected in parallel
- d) Please specify the load cell types and the rated load for each load cell required.



LEE-DICKENS LTD

Desborough, Kettering, Northants NN14 2QW U.K.

Tel: (01536) 760156 Fax (01536) 762552