ANYLOAD®

LCT100

Load Cell Tester

Calibrating the LCT100

The LCT100 leaves the factory fully calibrated, so there is no need for calibrating it when it is new. After a long period of time of use or if your tester is observed of having inaccurate readings, recalibration shall be needed. Here are the simple procedures to recalibrate the unit.

The followings are needed to do the recalibration:

- Two pieces 1000-Ohm and two pieces 10-Ohm accurate resistors
- A good and accurate Load Cell Simulator for 2mV/V

Preparing the Calibration Plug:

- Connect 1000 Ohms resistor between Ex+ (1) and Ex- (6)
- Connect 1000 Ohms resistor between Signal+ (3) and Signal- (4)
- Connect 10 Ohms resistor between Sense+ (2) and Ex+ (1)
- Connect 10 Ohms resistor between Sense- (5) and Ex- (6)
- Leave pins 7 and 8 open

The plug for calibration should now be ready

Recalibration Procedures:

- Before to start, make sure the LCT100 is turned off
- Press together the Right key and Middle key for 3 seconds, until the display shows a message: **"Connect Plug 1Kohm"**
- Connect the plugs you prepared. Once the two 1000 Ohms and two 10 Ohms resistors are connected (refer to "Preparing the Calibration Plug), press the Enter key to start the calibration
- The display will show **"Calibrating"** and the LED will be blinking. After a few seconds it will ask to **" Connect Gain Simulator "**
- Connect the Load cell simulator then press the Enter key
- The display will show **"Set sim to 0%"**
- Set the load cell simulator to 0% output, then press Enter key
- The LED will be blinking and once the zero calibration is finished, the display will show **"Set sim to 100%"**
- Set the load cell simulator to 100% output, then press Enter key
- The LED will be blinking in a few seconds
- Recalibration is completed!

Notes and precautions:

- Make sure the load cell simulator is set up to 2mV/V output
- The calibration parameters are stored in a non-volatile memory so even in the absence of the batteries the saved parameter values can be retrieved
- During calibration process you may skip some stages that are not applicable. For example, if just gain calibration is required, choose skip when it ask for the plug calibration
- Removing the batteries in the middle of the calibration process will restore the LCT100 to the default factory parameters, thus, a full calibration is required for the unit to respond a best results