QUOTATION

SMARTLOADCELL SLC-TRQ1
UNIVERSAL MANUAL TORQUE TESTER

In 2017. Sure Torque is launching a complete new product line: the SmartLoadCell measuring devices. SmartLoadCells are wireless telemetric load cells that can be connected to any Android smartphone via Bluetooth, and so the Smartphone will act as the display and the controller of the load cell. The SmartLoadCell application will transfer the phone to a very sophisticated precision measuring device.

General benefits of the SmartLoadCell concept:

- Economical telemetric systems, as it is not necessary to buy the remote unit
- Smartphones are having much bigger computing, graphical and memory capacity as any custom developed controller (and at lower cost)
- The smartphone can be used as background storage and stored data's are easy to transfer to pc via Bluetooth, wifi, internet or usb connection.
- SmartLoadCells are extra small and light

1 - Overview

Universal handheld torque tester for **closure** torque testing and **capper head chuck** torque testing on the capper machine. Can be ordered with various test fitments for the different closure types and applications:

Cap testing fitment – contains 2 parts:
1., A universal support that holds the cap fitments. Cap fitments are held by magnets for quick overchange.
2., Cap fitments: In any size up to D40 mm. with 12 serrate (capable to any serrate number that is a multiplier of 12).
Over 40 mm cap diameter or for special closures custom cap adapters are available.

Neck thread fitments for any kind of thread type for testing the capper heads' chuck torque on capper machines.

SmartLoadCell units can be connected to any Android smartphone (or tablet) via Bluetooth (over Android 4.4). The SmartLoadCell application offers wide range of test modes and test settings. Results can be stored, reviewed and sent to pc.
Torque tester is shipped calibrated, with traceable calibration certificate.

2 - Application

Industries: beverage, food, pharmaceutical, packaging
Application area: laboratory, production, maintenance
Use: Closure torque testing, capper machine chuck torque control
Product video: ▶ YouTube   ⬇ DOWNLOAD

3 - Benefits

- Small, handy, wireless
- Wide range of tests, possibility of measuring release torque, bridge torque, Incremental torque, application torque
- Torque-time graph drawing and saving
- Range analysis
- High storing capacity on the smartphone
- Graph zooming and scrolling in the history
- Adding comment to the results before saving
- Free Android application for unlimited devices
- Included pc software for data management and report creating
- 3 years warranty

4 - Details

Technical details:

Smartphone requirement	1 GB RAM, 1 GHz Processor, 4 GB ROM
Android version	Android 4.4 or higher
Measuring range:	-10Nm - +10 Nm (cca +/- 88.5 lbfIn)
Units of measurement:	LbfIn, LbfFt, Nm, dNm, Ncm, kgfcm, mV/V
Displayed values:	Actual, Max1, (Max2), torque-time graph
Accuracy	+/- 0,25% F.S.
Maximum measuring frequency:	400 Hz (SPS) = 2.5 ms
Range analysis	Yes – In range / under range / over range
Capable closure types:	any kind of serrated twist cap
Maximum sample size:	Any
Calibration kit:	available

Battery life:	12 hours
DC supply:	Micro USB
Included software:	Android application
	Data manager for PC
Memory:	Thousands of results (phone memory)
Stored data's:	measurement nr, peak results, date, time, graph, instrument name, serial number, comment, calibration date
Resistance grade:	IP 65
Language:	English
Dimensions: Footprint / Height	111x40x20 mm
Net weight:	0,23 kg
Shipping weight:	1 kg
Shipping dimensions:	200 x 130 x 80 mm(1050)
Shipping packaging:	Heavy duty waterproof case
Warranty:	**3 years**

Measuring modes:

SmartLoadCell has 4 different measuring modes. Relevant modes for this application:

For closure torque testing:
single and double peak modes
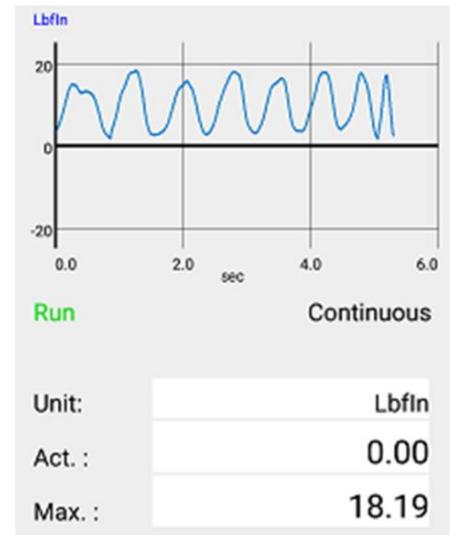
For chuck calibration:
continuous mode

Results:

What to do with your results?

- Add comments
- Save
- View from the history – graph can be zoomed and scrolled
- Send to pc on Bluetooth, wifi, mobile internet or USB cable

On the PC: the included data manager program can:

- convert results to csv-file (excel compatible)
- display the results with graphs
- make statistical analysis of the results
- create report from the individual results or from the statistical analyses