



## TorqueStar Lite, Plus & Pro

Torque Data Collector Series



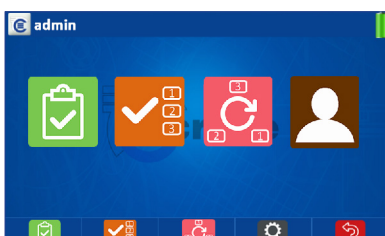
The TorqueStar torque data collector series is the latest innovation of the ground-breaking torque measurement system from Crane.

Ranging from the TorqueStar Lite, a basic torque data collector and indicator, up to the TorqueStar Plus, with full-colour screen, and the TorqueStar Pro, with torque traces, 'jobs & rounds', advanced statistics and in-line tool certification.

The TorqueStar Lite performs the basic measurement of torque in Track, Peak, Click and Pulse measurement modes. The Plus and Pro ranges offer the additional measurement of Force, Audit, Yield, Retighten and MoveOn measurement modes. Cycle time duration and tool speed can be displayed and time and date stamped readings can be set to print automatically.

The easy-to-view colour display on the TorqueStar Plus and Pro gives a clear view of all the relevant data and information required for the measurement process. The easy-clean keypad and functional soft keys add simple operation of all three ranges.

Light enough to carry with a neck strap, yet robust to withstand the rigours of the typical manufacturing environment, the TorqueStar series also includes a soft rubber trim to help protect against damage.



## Key Features

- Simple readout (Lite) to comprehensive audit tools (Plus/Pro)
- Display of all torque data and curves (Plus/Pro)
- Auto Bi-directional torque, angle and impulse count
- Track, Peak, Click and Pulse measurement as standard with Force, Audit (Plus) and MoveOn, Yield and Retighten (Pro) available
- User selectable frequency response
- Upper, lower and target specification limits for torque and angle
- Automatic transducer recognition
- Simple and easy to use OLED screen (Lite)
- Full-colour screen with icon based, easy navigation display (Plus/Pro)
- Optional upgrades available post-purchase (Plus only)
- Communicates with your PC system and our OMS torque software (Pro only)
- Connect up to 5 Crane transducers or torque wrenches via RF (Pro only)

## TorqueStar Lite

The TorqueStar Lite is the latest basic torque data collector in the revolutionary TorqueStar series, offering a simple and easy-to-use solution for the measurement and collection of torque data. The TorqueStar Lite is ideal for users who want a quick and straight-forward 'plug-and-play' product with the added precision that the Crane Electronics brand guarantees.



- Multiple measurement modes including Track, Peak, Pulse and Click.
- Strong, durable and robust construction, perfect for the manufacturing and quality environment.
- Simple setup and easy operation for a clear and concise torque measurement process.
- Includes a white OLED screen for basic torque data readings and alerts.
- LED torque status indicators with audible buzzer notification.
- Long battery life and up to 999 readings available in storage.

### Function Keys



#### Measurement Modes

Switch between numerous measurement modes.



#### Delete

Clear/Remove selected results and data.



#### View

Quick view of the readings list.



#### Statistics / Results

View all of the current collected data results.



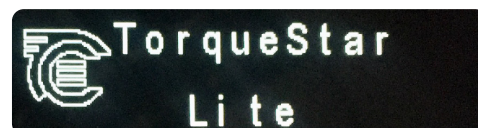
#### Settings

View and edit the TorqueStar Lite settings.

### OLED Screen



The sharp, clear screen on the TorqueStar Lite enables easy-to-view data and statistics. It also has an added screen-saving ability to ensure there is no screen burn-in damage.





## TorqueStar Plus & Pro

The TorqueStar Plus and Pro are the latest innovations from Crane Electronics in torque management. The Plus and Pro add a completely updated and fresh-looking torque indicator and data collector to our current product portfolio.

With a whole host of measurement modes available, a series of basic and advanced statistics, visual graphical analysis, high-quality backlit screen and expansive storage; the TorqueStar Plus and Pro models really do offer a complete solution for all budgets and applications in the manufacturing and quality environments.



- Numerous measurement modes including Track, Peak, Pulse, Click, Audit, MoveOn, Retighten and Yield.
- Strong, durable and robust, perfect for both manufacturing and quality auditing environments.
- A full-colour backlit screen for clear and concise torque measurement.
- The TorqueStar Pro has the capability to add 'jobs', 'rounds' & advanced statistics to your measurement process.
- TorqueStar Pro is also compatible with our own torque management software packages, OMS and OMS Lite.
- TorqueStar Pro delivers torque traces with USB trace exports available.
- The TorqueStar Pro also has RF communication to connect to our WrenchStar Multi and CheckStar Multi via RFm.
- The TorqueStar Pro offers configuration of logins for various users with adjustable access rights for different features using User Groups (configurable in OMS Lite and OMS software)



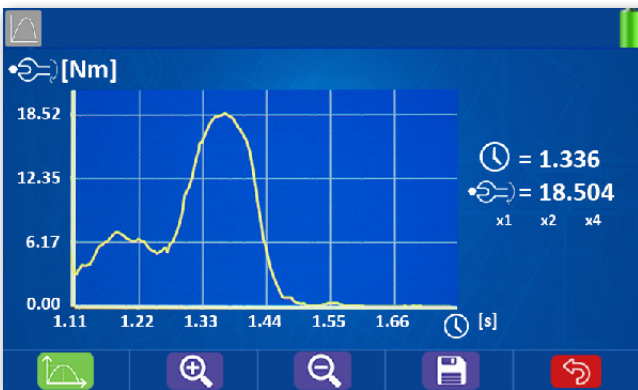
### Real-time data capture

The clear screen on the TorqueStar Plus & Pro delivers easy-to-view torque measurement status. Colour-coded statistics gives the operator all of the required information together on one screen.



### Easy to navigate

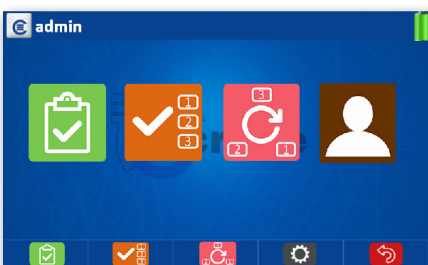
The simple menu and page structure allows for easy navigation and straight-forward use. The clear values and readings within all measurement modes improves the user experience.



### Torque traces & graphical analysis

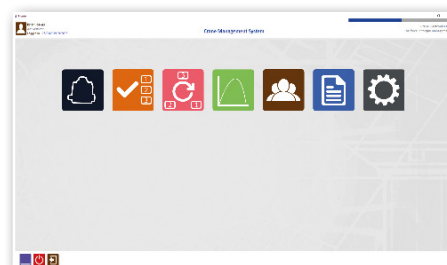
The TorqueStar Pro allows the user to view torque traces on the screen, to visualise the torque data measurement process.

Graphical analysis also delivers a more in-depth examination of vital assembly data. Zoom, change axis, re-size, move and USB trace exports are available on both units.



### Jobs, rounds & advanced statistics

The TorqueStar Pro includes the addition of pre-set 'jobs' and 'rounds' (groups of jobs) for increased efficiency. Advanced Statistics allows the user to review their collated results in further detail, helping to improve processes.



### OMS software compatibility

The TorqueStar Pro is compatible with Crane's torque management software systems, OMS and OMS Lite. This allows data to be collated and transported to the customer's system, offering a company-wide solution for torque management.



Item	Product Code	Product
TorqueStar Lite	TSLIX-0000-CRXXXX	Torque Data Collector
TorqueStar Plus	TSPLX-0000-CRXXXX	Torque Data Collector
TorqueStar Plus with Graphs	TSPLX-0000-CRGXXX	Torque Data Collector
TorqueStar Pro	TSPRX-0000-CRXXXR	Torque Data Collector
Graphs Upgrade (Plus Only)	TSPLS-0000-CRGXXX	Upgrade
Power Supply (PSU)	TSXXA-0000-CRPXXX	Accessory
External Battery Charger	TSXXA-0000-CRCXXX	Accessory
Neck Carry Strap	TSXXA-0000-CRSXXX	Accessory

All TorqueStar's are supplied with a 12-month Calibration Certificate.

## TorqueStar Lite - Technical Specifications

<b>Measurement Units</b>	Torque: Nm, lbft, lbin, MNm, Ncm, kgcm, kgm, kNm, klbft, Nmm, ozin
<b>Measurement Modes</b>	Track, peak, pulse, click
<b>Data Storage</b>	999 Readings in storage mode
<b>Basic Statistics</b>	Count, range, mean, min, max, standard deviation
<b>Auto-Print / Data Output</b>	Easy selectable output to Auto-Print
<b>Cycle Status Indication</b>	Audible buzzer and LED HI/OK/LO torque status. All user definable
<b>Operating Language</b>	Czech,English,French,German,Hungarian,Italian,Spanish,Swedish,Polish,Portuguese,Turkish
<b>Construction</b>	High strength injection moulding and soft rubber trim Tough internal chassis (can survive 1.8m drop) White OLED Display - 79mm x 21mm Easy clean keypad - 11 keys including 5 function keys
<b>Battery &amp; Power</b>	Lithium Ion - User swappable 3 hours charge time via USB or Universal 5V charger
<b>Power Management</b>	User selectable auto power-off: between 0 - 200 minutes
<b>Input / Output Ports</b>	25 pin 'D' type transducer Port, Basic USB (2.0) Micro 5V DC Power Port
<b>Zero Stability</b>	0.01% FSD/ °C
<b>Static Accuracy</b>	± 0.25% FSD of connected transducer
<b>Operating Environment</b>	Temperature: -20 to +50 °C Humidity 10-75% non-condensing Ingress protection rating: IP45
<b>Angle Measurement</b>	Display angle to 0.1 degrees, Sample every 1000 micro seconds
<b>Warranty</b>	12 months parts and labour against faulty workmanship or materials
<b>Accessories</b>	Neck Strap, USB Cable, 5V DC Charger

TorqueStar Plus & Pro - Technical Specifications		Plus	Pro
<b>Measurement Units</b>	Torque: Nm, lbft, lbin, MNm, Ncm, kgcm, kgm, kNm, klbft, Nmm, ozin	X	X
<b>Measurement Modes</b>	Track, Peak, Pulse, Click, Force, Audit, Angle Peak Move-On, Yield, Re-tighten	X	X
<b>Data Storage</b>	999 Readings in storage mode 16GB Storage - Internal Micro SDHC	X *	X X
<b>Basic Statistics</b>	Count, Range, Mean, Min, Max, Standard Deviation	X	X
<b>Advanced Statistics</b>	Cm, Cmk, Cp, Cpk	*	X
<b>Jobs &amp; Rounds</b>	Capability and storage and jobs and rounds data		X
<b>Auto-Print / Data Output</b>	Easy selectable output to Auto-Print (via USB Cable) or CSV (via USB Flash Drive)	X	X
<b>Cycle Status Indication</b>	Audible buzzer and LED Hi/OK/LO torque status. All user definable	X	X
<b>User Groups</b>	Configurable user logins and access rights (configurable via OMS/OMS Lite)	*	X
<b>Graphs &amp; Graphic Analysis</b>	Zoom, Change Axis, Resize, Move, Export Trace to USB Flash Drive	*	X
<b>Operating Language</b>	Chinese, Czech, English, French, German, Italian, Spanish, Swedish, Polish Portuguese, Turkish	X	X
<b>Construction</b>	High strength injection moulding and soft rubber trim Tough internal chassis (can survive 1.8m drop) Backlit LCD colour display - 86mm x 52mm (4") Easy clean keypad - 11 keys including 5 soft keys	X X X X	X X X X
<b>Battery &amp; Power</b>	Lithium Ion - User swappable 3 hours charge time via USB or Universal 5V charger	X X	X X
<b>Power Management</b>	User selectable auto power-off: between 0 - 200 minutes Brightness adjustment	X X	X X
<b>Input / Output Ports</b>	25 pin 'D' type transducer port, Basic USB (2.0) Micro Standard USB OTG, 5V DC power port	X X	X X
<b>Zero Stability</b>	0.01% FSD/ °C	X	X
<b>Static Accuracy</b>	± 0.25% FSD of connected transducer	X	X
<b>Operating Environment</b>	Temperature: -20 to +50 °C Humidity 10-75% non-condensing Ingress protection rating: IP45	X X X	X X X
<b>Angle Measurement</b>	Display angle to 0.1 degrees, Sample every 1000 micro seconds	X	X
<b>Warranty</b>	12 months parts and labour against faulty workmanship or materials	X	X
<b>Accessories</b>	Neck Strap, USB Flash Drive, USB Cable, 5V DC Charger	X	X
<b>Barcode Capability</b>	Optional with additional barcode scanner	X	X
<b>RF Capability</b>	Connect via RF for up to 5 WrenchStar Multi's or 5 Transducers via RFm		X

\*Single optional upgrade that provides all aspects highlighted \*

For pricing, availability or further technical information about the TorqueStar series, please contact us online at [www.crane-electronics.com](http://www.crane-electronics.com) or alternatively, email us at [sales@crane-electronics.com](mailto:sales@crane-electronics.com).

# The force in torque management

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