

TorqueStar Data Collector Series Lite, Plus & Pro



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

Ranging from the TorqueStar Lite, the 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, re-tighten and move-on 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 during the measurement process, while the easy-clean keypad and functional soft keys add simple operation of all three ranges.

Light enough for carrying on a neck strap, yet robust to withstand the rigours of the typical manufacturing environment, the TorqueStar range also includes a soft rubber trim to protect from accidental damage.

Key Features

- ✓ Next phase of innovative torque data collectors.
- ✓ Simple readout (Lite) to comprehensive audit tool (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 move-on, yield and re-tighten (Pro) available.
- ✓ User selectable frequency response.
- ✓ Upper and lower specification limits, plus control 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 also our OMS torque software (Pro only).
- ✓ Connect up to 5 transducers (via RFm) or 5 WrenchStar Multi 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**, 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.



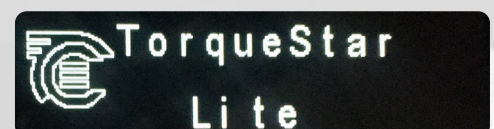
Settings

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, move-on, re-tighten** and **yield**.
- ✓ **Strong, durable and robust**, perfect for the manufacturing and quality environments.
- ✓ A **full-colour backlit screen** for clear and concise torque measurement.
- ✓ Both ranges are compatible with **label printers**, connected via USB port.
- ✓ 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** also offers **torque traces** and **RF communication** to connect to our WrenchStar Multi and CheckStar Multi via RFm.



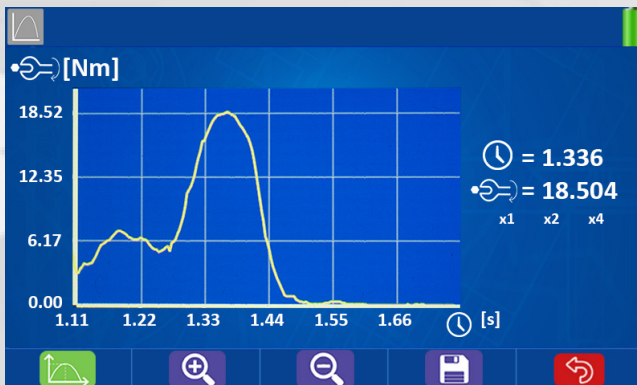
Real-time data capture

The clear screen on the TorqueStar Plus & Pro allows for easy-to-view torque measurements. Colour-coded statistics give the operator all the required information on one screen.



Easy to navigate

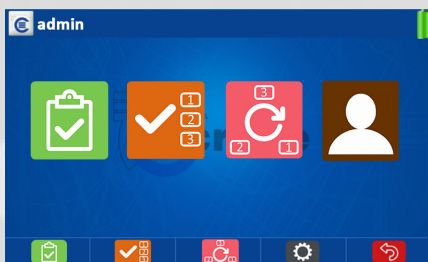
The simple menu and page structure allows for easy navigation and straight-forward use. The clear values and readings within all measurement modes improves the user experience.



Torque traces & graphical analysis

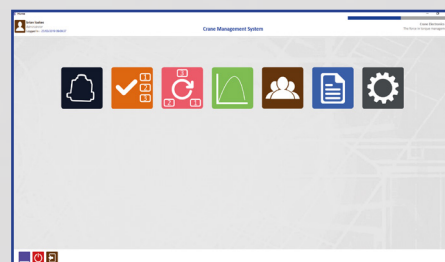
The TorqueStar Pro allows the user to view torque traces on the screen, to visualise the torque data measurement process.

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, with the addition of 'trend' available on the TorqueStar Pro.



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 results in detail and 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.

Technical Specifications - TorqueStar Lite

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

TorqueStar Product Codes

TSLIX-0000-CRXXXX	TorqueStar Lite
TSPLX-0000-CRXXXX	TorqueStar Plus
TSPLX-0000-CRGXXX	TorqueStar Plus with Graphs
TSPRX-0000-CRXXRX	TorqueStar Pro

Accessories / Upgrade Codes

TSPLS-0000-CRGXXX	Graphs Upgrade
TSXXA-0000-CRPXXX	Power Supply (PSU)
TSXXA-0000-CRCXXX	External Battery Charger
TSXXA-0000-CRTXXX	Protective Case (Trunk)
TSXXA-0000-CRSXXX	Neck Carry Strap

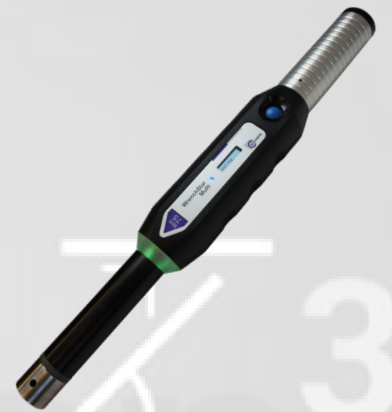


All TorqueStar's
are supplied with
a 12 month
Calibration
Certificate.

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

*Single optional upgrade that provides all aspects highlighted *

Complete torque management systems from Crane Electronics



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