TorqueStar Data Collector Series
Lite, Plus & Pro

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

Ranging from the TorqueStar Lite, the new basic torque data collector and indicator, up to the TorqueStar Plus, with new full-colour screen, and the TorqueStar Pro, with torque traces, ‘jobs & rounds’ and advanced statistics.

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 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 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).
- Options available to suit all budgets and applications.
- Optional upgrades available post-purchase (Plus only).
- Communicates with your PC system and also our OMS torque software (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 clear and sharp 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 preset ‘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 system, OMS. 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, 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

### 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
## Technical Specifications - TorqueStar Plus & Pro

<table>
<thead>
<tr>
<th>Feature</th>
<th>Plus</th>
<th>Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Units</strong></td>
<td>Torque: Nm, lbft, lbin, MNm, Ncm, kgcm, kgm, kNm, klbf, Nmm, ozin</td>
<td>X</td>
</tr>
<tr>
<td><strong>Measurement Modes</strong></td>
<td>Track, Peak, Pulse, Click, Force, Audit</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Move-On, Yield, Re-tighten</td>
<td></td>
</tr>
<tr>
<td><strong>Data Storage</strong></td>
<td>999 Readings in storage mode</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>16GB Storage - Internal Micro SDHC</td>
<td></td>
</tr>
<tr>
<td><strong>Basic Statistics</strong></td>
<td>Count, Range, Mean, Min, Max, Standard Deviation</td>
<td>X</td>
</tr>
<tr>
<td><strong>Advanced Statistics</strong></td>
<td>Cm, Cmk, Cp, Cpk</td>
<td></td>
</tr>
<tr>
<td><strong>Jobs &amp; Rounds</strong></td>
<td>Capability and storage and jobs and rounds data</td>
<td></td>
</tr>
<tr>
<td><strong>Auto-Print / Data Output</strong></td>
<td>Easy selectable output to Auto-Print (via USB Cable) or CSV (via USB Flash Drive)</td>
<td>X</td>
</tr>
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<td><strong>Cycle Status Indication</strong></td>
<td>Audible buzzer and LED Hi/OK/LO torque status. All user definable</td>
<td>X</td>
</tr>
<tr>
<td><strong>Graphs &amp; Graphic Analysis</strong></td>
<td>Zoom, Change Axis, Resize, Move, Trend (Pro only), Export Trace to USB Flash Drive</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Language</strong></td>
<td>Chinese, Czech, English, French, German, Italian, Spanish, Swedish, Polish</td>
<td>X</td>
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<tr>
<td></td>
<td>Portuguese, Turkish</td>
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<tr>
<td><strong>Construction</strong></td>
<td>High strength injection moulding and soft rubber trim</td>
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<td>Tough internal chassis (can survive 1.8m drop)</td>
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<td></td>
<td>Backlit LCD colour display - 86mm x 52mm (4”)</td>
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<td>Easy clean keypad - 11 keys including 5 soft keys</td>
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<td><strong>Battery &amp; Power</strong></td>
<td>Lithium Ion - User swappable</td>
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<td>3 hours charge time via USB or Universal 5V charger</td>
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<td><strong>Power Management</strong></td>
<td>User selectable auto power-off: between 0 - 200 minutes</td>
<td>X</td>
</tr>
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<td></td>
<td>Brightness adjustment</td>
<td>X</td>
</tr>
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<td><strong>Input / Output Ports</strong></td>
<td>25 pin ‘D’ type transducer Port, Basic USB (2.0) Micro</td>
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<td>Standard USB OTG, 5V DC Power Port</td>
<td>X</td>
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<td><strong>Printer Compatibility</strong></td>
<td>Serial Printer (via USB)</td>
<td>X</td>
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<td><strong>Zero Stability</strong></td>
<td>0.01% FSD/ °C</td>
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<td><strong>Static Accuracy</strong></td>
<td>± 0.25% FSD of connected transducer</td>
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<td><strong>Angle Measurement</strong></td>
<td>Display angle to 0.1 degrees, Sample every 1000 micro seconds</td>
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<td><strong>Warranty</strong></td>
<td>12 months parts and labour against faulty workmanship or materials</td>
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<td></td>
<td>Neck Strap</td>
<td>X</td>
</tr>
<tr>
<td><strong>Barcode Capability</strong></td>
<td>Optional</td>
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*Optional Upgrade.
Complete torque management systems from Crane Electronics