Tightening Data Management System

TDMS/ TDMSHT

[Version 2.00]

Tohnichi’s system makes it easy to manage data for retightening inspections and tightening operations.

- New version compatible with many Tohnichi devices equipped with Bluetooth®
- Offers both unidirectional and bidirectional communication.
  - Unidirectional communication: For managing retightening inspection data
  - Bidirectional communication: For tightening operations Gives on-the-spot Pass/Fail judgments for tightening data.
- Can output Excel® files showing N, X-bar, σ, cp and cpk values which are automatically calculated from measured tightening data and inspection data.

Tohnichi Torque Devices

Your Torque Partner
Features

- Compatible with both CEM3-G-BTS (for unidirectional communication) and CEM3-G-BTD (for bidirectional communication) [Version 2.00]
  Models with the -BTS suffix are suitable for retightening inspections. Models with the -BTD suffix are suitable for tightening.
- Available: TDMS (software only) and TDMSHT (with TDMS already installed in Handy Terminal)
  Select the product that meets your requirements. * Note: English and Chinese versions also available.
- Can output Excel® files showing N, X-bar, σ, cp and cpk values which are automatically calculated from measured tightening data and inspection data.
  The calculated values for N, X-bar, σ, cp and cpk are used to rapidly detect any abnormalities.
- Can connect with many Tohnichi devices equipped with Bluetooth® to easily establish a tightening data management system.
  Use when connected to the CEM3-G-BTS, CEM3-G-BTD or STC2-G-BT, or to the HACQSPDY or CTB2-G-BT which are configured according to your instructions after your order is received.
  * Note 1: Simultaneous connections to a maximum of 7 devices possible when using TDMSHT
  * Note 2: Tohnichi can configure the TDMS / TDMSHT for the ST3-G-BT according to your instructions after your order is received.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>TDMSHT Bluetooth® Communication Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible operating systems</td>
<td>Windows® XP, 7, 8, 8.1, 10</td>
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<td></td>
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<tr>
<td></td>
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</tbody>
</table>

Tightening Data Management System

<table>
<thead>
<tr>
<th>Model</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDMS</td>
<td>Japanese-language software for Tightening Data Management System</td>
</tr>
<tr>
<td>TDMS-C</td>
<td>Chinese-language software for Tightening Data Management System</td>
</tr>
<tr>
<td>TDMS-E</td>
<td>English-language software for Tightening Data Management System</td>
</tr>
<tr>
<td>TDMSHT</td>
<td>TDMS already installed in Handy Terminal</td>
</tr>
<tr>
<td>TDMSHT-C</td>
<td>TDMS + Handy Terminal (Chinese)</td>
</tr>
<tr>
<td>TDMSHT-E</td>
<td>TDMS + Handy Terminal (English)</td>
</tr>
</tbody>
</table>

* Note: TDMSHT-C and TDMSHT-E are produced upon order.

How To Order

Please be sure to specify “Tohnichi” and model name.

Example 1: Tohnichi TDMS
Example 2: Tohnichi TDMSHT + CEM200N3X19D-G-BTD
Usage Example

① Creates a measured site master using Excel®.
② The created site master is registered in the Handy Terminal
   using the USB memory stick.
③ The worker doing measurements performs retightening
   inspections or tightening operations based on site
   information displayed in the Handy Terminal.

For unidirectional communication:
(Retightening inspections)

Example: CEM3-G-BTS

Memory Counter Measured torque value

Bluetooth®

④ If a non-standard inspection value is received, the buzzer will
   sound and an error message will appear.

For bidirectional communication:
(Tightening)

Example: CEM3-G-BTD

Maximum torque value Tightening torque value

Minimum torque value

LED indications for
Pass/Fail judgments
shown on the spot:
BLUE: OK RED: No Good

④ Data on each tightening operation is received, and then a
   Pass/Fail judgment is made.
   Site information for the next
   tightening operation is transmitted to the torque wrench.

⑤ Data saved in the Handy Terminal is output in Excel® format, so the measured values for each site and the
   calculated values for X-bar, σ, cp and cpk can be used to rapidly detect any abnormalities.
Bluetooth® equipped Tohnichi device

**CEM3-G-BTS/CEM3-G-BTD Wireless Digital Torque Wrenches**

- A Bluetooth® module has been built in for wireless data transmissions.
- The -BTS suffix indicates the device is equipped for unidirectional communication for retightening inspections.
- The -BTD suffix indicates the device is equipped for bidirectional communication for tightening operations.
- Interchangeable head types can be used for a variety of tightening operations and retightening inspections.

### Applicable Interchangeable heads

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque measurement range ( N·m )</th>
<th>Overall length ( mm )</th>
<th>Approx. weight ( g )</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM10N3</td>
<td>2 - 10</td>
<td>213</td>
<td>0.54</td>
</tr>
<tr>
<td>CEM10N3</td>
<td>2 - 10</td>
<td>213</td>
<td>0.54</td>
</tr>
<tr>
<td>CEM15N3</td>
<td>4 - 20</td>
<td>215</td>
<td>0.55</td>
</tr>
<tr>
<td>CEM20N3</td>
<td>10 - 50</td>
<td>282.5</td>
<td>0.66</td>
</tr>
<tr>
<td>CEM25N3</td>
<td>20 - 100</td>
<td>384.5</td>
<td>0.71</td>
</tr>
<tr>
<td>CEM30N3</td>
<td>40 - 200</td>
<td>475.5</td>
<td>0.86</td>
</tr>
<tr>
<td>CEM35N3</td>
<td>72 - 360</td>
<td>713.5</td>
<td>1.21</td>
</tr>
<tr>
<td>CEM40N3</td>
<td>100 - 500</td>
<td>950</td>
<td>4.08</td>
</tr>
<tr>
<td>CEM45N3</td>
<td>170 - 850</td>
<td>1388</td>
<td>5.22</td>
</tr>
</tbody>
</table>

**Note 1:** Overall length is for the body only; it does not include interchangeable head.

**Note 2:** The CEM3-G-BTS and CEM3-G-BTD series meet communication standards established in Japan, the United States, Canada, the EU, China, Thailand, Mexico, Vietnam, Brazil and Taiwan. (Information valid as of March 2017).

* For other countries and regions, please contact us.

* Note: SH and RH types are also available in inch sized measurements.

**Interchangeable head type**

* Note: When using an interchangeable head torque wrench made by Tohnichi, use only Tohnichi’s interchangeable heads. You cannot use other heads for our torque wrenches.

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### STC2-G-BT Wireless Digital Torque Screwdriver

- A Bluetooth® module has been built in for wireless data transmissions.
- Offers both unidirectional communication for retightening inspections and bidirectional communication for tightening operations.
- Equipped with multifunctional LED ring illuminator. Provides easy-to-see tightening results for tightening operations, and easy-to-see Pass/Fail judgment results for retightening inspections.

<table>
<thead>
<tr>
<th>Model</th>
<th>Measured torque range ( N·m )</th>
<th>Overall length ( mm )</th>
<th>Approx. weight ( g )</th>
</tr>
</thead>
<tbody>
<tr>
<td>STC50N2</td>
<td>10 - 50</td>
<td>0.05</td>
<td>230</td>
</tr>
<tr>
<td>STC200N2</td>
<td>40 - 200</td>
<td>0.2</td>
<td>325</td>
</tr>
<tr>
<td>STC400N2</td>
<td>80 - 400</td>
<td>0.5</td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** Overall length is for the body only; it does not include the bit.

**Note 2:** The STC2-G-BT series meet communication standards established in Japan, the United States, Canada, the EU, Thailand, Mexico, Vietnam, Brazil and Taiwan. (Information valid as of March 2017).

* For other countries and regions, please contact us.

**Excel** is a registered trademark of Microsoft.

**Bluetooth®** is a registered trade mark of Bluetooth SIG, Inc.

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**Dealers**

- Tohnichi Manufacturing always aims for improvements; so product specifications may change without notice.
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