Tightening Data Management System
TDMS/TDMSHT

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

CEM3-BTS / CEM3-BTD

HACQSPDY / HAQSPDY

CEM3-BTA

PTA-BT

CES
+
M-CES-BT

CTB2-BT

STC2-BT

ST3-BT

- 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

TOHNICHI

Tightening Data Management System
TDMS / TDMSHT

Features

● Compatible with both CEM3-G-BTS (for unidirectional communication) and CEM3-G-BTD (for bidirectional communication)

   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, CEM3-G-BTA 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 6 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

■ Specifications

Compatible operating systems	Windows® XP, 7, 8, 8.1, 10, 11

■ TDMSHT Bluetooth® Communication Specifications

Communication method	Bluetooth®
Frequency band	2.4 GHz
Maximum communication distance	Approx. 10m

■ Tightening Data Management System

Model	Information
TDMS	Japanese-language software for Tightening Data Management System
TDMS-C	Chinese-language software for Tightening Data Management System
TDMS-E	English-language software for Tightening Data Management System
TDMSHT	TDMS already installed in Handy Terminal
TDMSHT-C	TDMS + Handy Terminal (Chinese)
TDMSHT-E	TDMS + Handy Terminal (English)

* 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

TDMSHT

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.

Creates a measured site master.

USB Memory Stick

■ 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.

Handy Terminal

■ For bidirectional communication:
(Tightening)

Example: CEM3-G-BTD

Maximum torque value
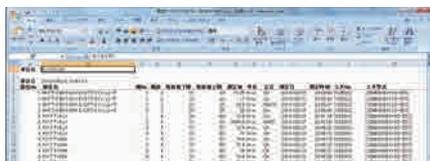
Tightening torque value

Minimum torque value

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

Bluetooth®

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.

Outputs measured data for each axis.

Outputs information regarding the selected sites, the axis numbers, and the automatically calculated results of statistical processing.

Outputs the automatically calculated results of statistical processing for each registered site.

Measured values and values for X-bar, σ, cp and cpk

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.

Accuracy: ± 1%

Applicable interchangeable heads	Model	Torque measurement range (N•m)		Overall length (mm)	Approx. weight (kg)
		Min - Max	1 digit		
8D	CEM10N3×8D-G-BTS	2 - 10	0.01	212	0.54
	CEM10N3×8D-G-BTD				
10D	CEM20N3×10D-G-BTS	4 - 20	0.02	214	0.55
	CEM20N3×10D-G-BTD				
12D	CEM50N3×12D-G-BTS	10 - 50	0.05	282	0.66
	CEM50N3×12D-G-BTD				
15D	CEM100N3X15D-G-BTS	20 - 100	0.1	384	0.71
	CEM100N3×15D-G-BTD				
19D	CEM200N3×19D-G-BTS	40 - 200	0.2	475	0.86
	CEM200N3×19D-G-BTD				
22D	CEM360N3×22D-G-BTS	72 - 360	0.4	713	1.21
	CEM360N3×22D-G-BTD				
	CEM500N3×22D-G-BTS	100 - 500	0.5	949	4.08
	CEM500N3×22D-G-BTD				
32D	CEM850N3×32D-G-BTS	170 - 850	1	1387	5.22
	CEM850N3×32D-G-BTD				

Note 1: Overall length is for the body only; it does not include interchangeable head.
Note 2: It supports many overseas communication standards.
Please contact us for more information.

CEM3-G-BTS / CEM3-G-BTD

■ Interchangeable head type

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

* 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.

■ 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.

Accuracy: ± 1%

Model	Measured torque range[cN・m]		Overall length (mm)	Approx. weight (g)
	Min - Max	1 digit		
STC50CN2-G-BT	10 - 50	0.05		
STC200CN2-G-BT	40 - 200	0.2	230	325
STC400CN2-G-BT	80 - 400	0.5		

Note 1: Overall length is for the body only; it does not include the bit.
Note 2: It supports many overseas communication standards.
Please contact us for more information.

STC2-G-BT

Tightening and retightening operations are now even easier and more accurate.

- ■ In tightening mode, LED light shines WHITE when target tightening torque is 80% or more.
- ■ LED light shines BLUE within the set torque range.
- ■ LED light alternates between YELLOW and RED when the set value is exceeded.

Dealers

Your Torque Partner
TOHNICHI

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