CEM3/CEM3-P

PAT. P

Digital Torque Wrench for Inspection and Tightening

CEM3 Standard Version

Dual LCD and LED Displays for Optimal Viewing

- User Friendly Operations
- Manage Data with Time and Date Functions
- Various Data Processing Options with PC or Handy Terminal (Model HT)

CEM3-P Version

- Expanded Programming Features Link Torque Data to Fastener Information
- Prevent Inspection Errors and Improve Testing Efficiency
- Easy to Create Torque Inspection Routes with Supplied Software

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CEM3 Standard Version

*The display of CEM3 can be switched between LCD (in the power saving mode) and LCD+LED.



Features of CEM3

- Judgment Function: OK/NG Buzzer and LED light
- Dual Displays: Switch between power saving LCD and LCD+LED for easy viewing
- Measured Data Linked to Time and Date
- 999 Data Storage Capacity
- Preset Value Buzzer and Display Alerts.
- Data Output: RS232C-Compliant (USB 1.1 Compliant) and Infrared
- 20 Hours Battery Life (30 hrs of continuous use in power saving mode)
- Environmentally friendly Ni-MH battery
- LCD Residual Battery Life Indicator
- Light Weight Robust Aluminum Body Construction
- Innovative Handle Design Shows Effective Length Point for Optimal Use
- Statistical Data: Sample Size, Min., Max. and Average Values Displayed
- Download Individual or Selected Range of Data
- Advanced Data Management Options with PC or Handy Terminal (Model HT)

Dual Mode on your purpose:

Inspection

- Perform loosening or retightening test
 - Most common is retightening where you must apply more torque to the bolt until it move, capturing the peak torque.
- For quality control checks
- Tightening
 - Tighten bolt to a specific torque value
 - For special tightening applications that require data storage

CEM3-P

CEM3-P is a programmable version of the CEM3 model. This specialized version has expanded data management functions which are set up through PC software and uploaded to the wrench via cable. (software and #584 cable included)

Various Data can be set up including:

- Product Category/Route Name,
- Fastener Location,
- Number of Fasteners,
- Torque Hi/Lo Limits,
- Sequence

The programmed "Torque Route" information is displayed on the wrench which guides the user through a sequence of torque inspections. Judgment alarms can be set up to signal if value is OK or NG. Stored data can then be downloaded to an Excel file through supplied software package.

Features of CEM3-P

- 6 Character Name Display
- 10 Main Categories (Product/Route Names)
- 10 Different Tightening Jobs
- Up to 99 Fasteners per Job
- Route Completion Indicator
- Main Category Selector
- Repeat Same Torque Route or Toggle To Select
- Ideal for linking product information with torque values
- Easy for users to keep track of various testing routes.

Operation Example

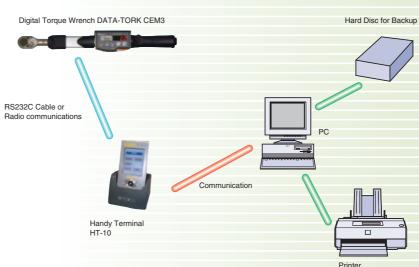
Customised Optional Interface

Tightening Control System for Statistical Data Processing

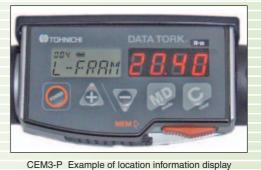
- Overview
- DFS Software communicates with Handy Terminal
- Measured torque data taken with DATA TORK CEM3 can be filed according to each model.
- Data Search, Statistical Data Processing, Graphing, Daily/Monthly Reports
- Flexible system with Master File maintenance, transmitting and receiving
 Help menu guidance for quick installation and set up

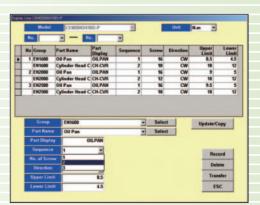
Statistic data processing



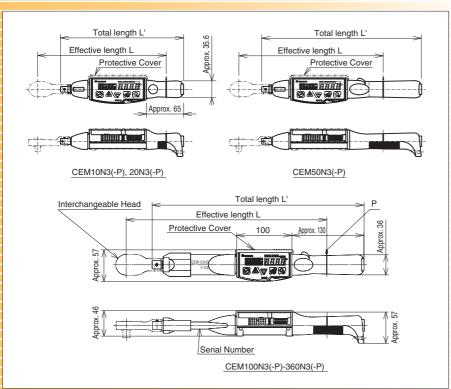


% For more detail information, please contact TOHNICHI dealers.

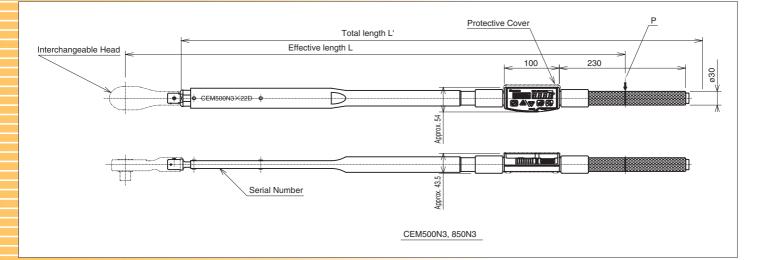




Example of data management screen on PC.



	CEM3					
Accuracy	1% ±1digit					
Display (Torque value)	7 segments LED 4 lines %					
(Counter)	14 segments LCD 3 lines *					
Digit Height (Torque value)	10.16mm *					
(Counter)	7mm %					
Number of Data Memory	999					
Basic Functions	Peak Hold					
	Peak Data Memory					
	Run Mode					
	Auto Memory & Resetting					
	Auto Zero setting					
	Auto Off (3 min)					
	Over Torque Alarm					
	Clock					
Communication Functions	RS232C (2400-19200bps)					
	Serial output corresponding to a USB connecter					
Battery Life Indicator	Available					
Power Supply	Ni-MH rechargeable battery					
Continuous Use	Approx 20hrs (Recharging 8hrs)					
Recharging Time	Approx. 3.5hours					
Communication Mode Switch	Key Operation					



1		Standard		-M -A					Dimension					Interchangeable Head		
	Model			Metric					Max force			Weight Acces			sories	
		MINMAX.	1 digit	MINMAX.	1 digit	MINMAX.	1digit	MINMAX.	1 digit	[N]	[mm]	[mm]	[kg]			
_		N∙m	N∙m	kgf∙cm	kgf∙cm	lbf∙in	lbf∙in	lbf∙ft	lbf∙ft							
	CEM10N3X8D(-P)	2-10	0.01	20- 100	0.1	20-90	0.1			48.1	208	212	0.46	QH8D	Battery	(SH,RH,QH,HH)8D
	CEM20N3X10D(-P)	4-20	0.02	40-200	0.2	36-180	0.2			92.2	217	214	0.47	QH10D	Charger	(SH,RH,QH,DH,HH)10D
	CEM50N3X12D(-P)	10-50	0.05	100- 500	0.5	100-450	0.5			196.9	254	282	0.58	QH12D	BC-3-100	(SH,RH,QH,RQH,DH,HH)12D
	CEM100N3X15D(-P)	20-100	0.1	200-1000	1	200-900	1	15-75	0.1	275.5	363	384	0.63	QH15D	100V	(SH,RH,QH,RQH,DH,HH)15D
	CEM200N3X19D(-P)	40-200	0.2	400-2000	2			30-150	0.2	428.3	467	475	0.78	QH19D		(SH,RH,QH,RQH,DH,HH)19D
	CEM360N3X22D(-P)	72-360	0.4	720-3600	4			52-260	0.4	498.6	722	713	1.13		or	
				kgf∙m	kgf∙m									QH22D	BC-3-200	(SH,RH,QH,RQH,DH,HH)22D
	CEM500N3X22D(-P)	100-500	0.5	10- 50	0.05			72-360	0.5	549.5	910	949	4.00		220V	
	CEM850N3X32D(-P)	170-850	1	17- 85	0.1			124-620	1	608	1398	1387	5.14	QH32D		(SH,RH,QH)32D

Note: Metric model is named "-M", e.g. CEM10N3X8D-M for 20-100kgf cm. English model is named "-A", e.g. CEM20N3X10D-A for 36-180lbf in.



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