



Instruction Manual



Adrec Corp.

Rev.0

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1 . Introduction

Introduction

Thank you for purchasing our "Digital Torque Wrench". This software can make various settings for our "Digital Torque Wrench"

and can retrieve and save the work records recorded in the torque wrench.

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2 Installation Procedure

2-1 Supported OS

Microsoft Windows 7, 7x64, 8, 8x64, 8.1, 10, 11 *NET Framework 4.5 or higher must be installed.

- 2-2 Software Installation
 - 1) Install USB driver



Right-click the following file in the [1-USB Driver] folder and select "Run as Administrator" and click it.

CDM21236_Setup.ex	e
	Open
	Run as administrator

Follow the on-screen instructions to install.

🗯 FTDI CDM D	rivers X		Device Driver Installation Wizar	d
ſſ	FTDI COM Drivers Cick Extract to unpack version 2.12.36.1 of FFDI's Windows driver package and launch the installer.	1		Welcome to the Device Driver Installation Wizard! This wized helps you install the software drivers that some computers devices need in order to work.
	www.itdichip.com			To continue, olick Next.
	<back cancel<="" extract="" td=""><td></td><td></td><td><back next=""> Cancel</back></td></back>			<back next=""> Cancel</back>
Device Driver In License Age	stallation Wizard reement		Device Driver Installation Wizar	d Completing the Device Driver Installation Wizard
No.	To continue, socept the following license agreement. To read the entire agreement, use the soroll bar or press the Place Down kay.			The device driver installation wizard did not update any of your software for your hardware devices because it was not better than the software you ourrently have installed.
	BYINSTALLING OR USING THIS SOFTWARE YOU AGREE TO THE V Of gocept this agreement Provide the server of the server			Driver Name Status ✓ FTDI CDM Driver Package Ready to use ✓ FTDI CDM Driver Package Ready to use
	<back next=""> Cancel</back>	1		< Back Finish Cancel

2) Installation of standard software "Adrec.Net

Note	
If you have installed a version prior to Ver.	12.9, be sure to uninstall it
before following the procedure below.	
	Torque Control System [Adrec.NET] USER
The version can be checked from "Version information" in the Help tab.	File Setting Display Communication Help Version information Reting Wirele

Double-click the [setup.exe] file in the [2-Standard Software [Adrec.Net]] folder.



Follow the on-screen instructions to install.

妃 Adrec.NET – 🗆 🗙	🛃 Adrec.NET — 🗆 🗙
Welcome to the Adrec.NET Setup Wizard	Select Installation Folder
The installer will guide you through the steps required to install Adrec NET on your computer.	The installer will install Adrec. NET to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
	Eolder: CVProgram Files (x86)#AdrecVAdrec NETV Bjowse
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	Disk Cost Install Adrec NET for yourself, or for anyone who uses this computer: <u>Everyone</u> <u>O</u> Just me
<back cancel<="" td=""><td>Cancel</td></back>	Cancel
₽ Adrec.NET – X	₩ Adrec.NET – ×
Confirm Installation	Installing Adrec.NET
The installer is ready to install Adrec NET on your computer. Click "Next" to start the installation.	Adrec.NET is being installed. Please wait
< Back Next > Cancel	< <u>B</u> ack. Next> Cancel
🛃 Adrec.NET — 🗌 🗙	
Installation Complete	
Adrec.NET has been successfully installed.	
Click "Close" to exit.	Adrec.Net icon on the desktop will be created
Please use Windows Update to check for any critical updates to the .NET Framework.	And increase in Reference in Re
	-
Back Cose Cancel	

3 Overview

3-1 What the standard software [Adrec.Net] can do

Adrec.Net is software that allows you to check and change torque wrench settings, display tightening values in real time, and retrieve and save tightening results.

1) Setting operation screen

Checks and changes torque wrench settings, such as upper and lower limits, control frequency, etc., which are mainly related to the work being performed.



Setting operation icon

				Se	LLIN	g (pera	τ	10	n	acen:	h i	UP#	
ench type	10			Uni	t code					Total	number	0		
ench nase	DF911	0		Tor	que Range	±.	$.00\sim10.$	10		Date		3/2	B/2023	10:35:31
rque wrench	1													
No.	Lore	r to	Usper	lo	Control		Next PT &	ю.	1	Neno	node -	-		
PT01			3.5		0		0			Invali	d v			
PT02		0	0		0		0			Invali	d ~			
PT03		0	0		0		0			Invali	d 🗸			
PT84		0	0		8		0			Invali	d 🗸			
PT05		0	0		0		0			Invali	d v			
PTC6		D	0		0		0			Invali	d ~			
PT07		0	0		0		0		_	Invali	d ~			
PT08		0	0		0		0			Invali	d v			
PT09		0	0		0	_	0			Invali	d v			
PT10		0	0		0		0	_		Invali	d v			
zzer ON/OFI	:	() () () () ()		(N)		Sten	tiser	۲	OFF	0.5	0	0	0.90	O 60
bration ON,	/OFF	🔿 Inva	lid i	🖲 Val	id	Auto	timer)	۲	OFF	01	0	5	08	
te setting		Inva	lid I) Val	id	£d.	cance alarm	1	0X	~	OFF			
to sole		O Manus	at i	🖲 Aut	0	£d.	rance alarm	2	0X	~	OFF			
						4.5	ance elere	3	0X	~	OFF		-	
						£d.	ance alarm	4	0X	v	OFF		-	
						1d	cance alarm	5	05	~	OFF			

2) Data output operation screen

It mainly operates tightening results, such as displaying tightening values,

extracting data from tightening results, and saving data.



3) Maintenance operation screen

Z

Set up basic information about the torque wrench, such as radio channel and wireless ID.

1		
100		
-		
		L
		E
-		100
-	_	

Maintenance operation icon

ae Control System (Ac	trec.NET] USER			- 0	>		
setting Display	Communication H	telp					
🗐 🗉 🕌	38 6 -	0:0 🖡	Connecting Wireless	siDi - iDi			
	Mainte	enance	e operation	Connecting DPH	_		
			D pro	cedure 🔔 Pre-caut	ion		
Product infomatio	10		tireless setting	Press lange			
Wfg No.	4061803-2002R		Torque erench	Receiver			
Software version	Ver2.80(0)		Fireless ID 1	Reading Priting			
French name	DP#10						
Verify mode	0P#-10 ···						
Unit	N-8 V						
Verify mode	OFF ~		Calibration infomation				
			Span coefficient 1434 Initial value -1363	adjustment 0			
Tightening di	rection	Number many	penent function	Alars sound			
@ Clockeise ()	Both direction	Count di	splay method	0.5 V Sec.			
On-Line coord	instion	⊛ Subtra	ction 🔾 Addition				
O Individual	Coordinate	Owner Law	un alore function	Torque buzzer sound			
		OBotaul	t @ Cool inunt ion () Hold	Lower Pattern8 ~			
		0		Encryption Invalid O Valid			
Measurement a	rriyal —	Over tor © Do not	que counting function - count O Count				
status transmission ● Invalid ○ Valid				Set invalid Set valid			

3-2 Basic flow for using a torque wrench and Adrec.Net

To use Adrec.Net, the connection operation with the torque wrench is required.

(1) First, set the port number from the Communication settings screen.

Port number (COM number) settings are required for both wired and wireless connections.

The port number (COM number) means automatically assigned number when connected to PC via USB. It can be found in the device manager.



	Communication setting	
	Port Settings	Number of wrenches
2	Vireline Port No. COM2 🗸	Number of 1 vrenches
<u>~</u>	Vireless Port No. ↓ ↓	Wireless ID setting
	Encrypted connection	
Communication Settings	⊖ encrypt ● Not encrypt	OK Cancel

(2) Make wired or wireless connections.



The output operation screen is operated up to this point to start the tightening operation. The setup operation screen and maintenance operation screen follow the next operation.

(3) To change the setting, read the current setting from the torque wrench.

"Read out setting data" is performed.

(For wired connections, automatically performed when the [Wired Connection] is made.)



(4) Change to the contents to be written to the torque wrench by screen operation.



←Change contents

(5) Write the changed contents on the torque wrench.

"Write Data" is performed.



3-3 Method of recording tightening value

There are two ways to record tightening values.

[Method 1]

Prepare a PC and use the "Output Operation Screen" to accumulate tightening values. This method is mainly used for wireless torque wrenches.





The above usage is possible with a wired torque wrench as long as cable is connected.

[Method 2]

The tightening value is stored in the main body of the torque wrench

and later retrieved on the "output operation screen".

This method is used for wired torque wrenches where a PC is not available nearby.



MEMO mode = Enable and record the tightening value in the torque wrench body.

After connecting to a PC, the tightening value recorded on the torque wrench body is retrieved on the output operation screen.

The above usage is also possible with a wireless torque wrench.

However, in the case of a wireless torque wrench, it will be in a state of receiving confirmation (waiting for a reply from the PC) in order to prevent leakage of reception. If there is no PC connected to the receiver nearby, the tightening value will blink and work will not be smooth.

To cancel this setting, it is necessary to change the setting to

"Online system linkage function = stand-alone" from the maintenance setting screen.

(Refer to the maintenance operation screen for how to change the setting.)

3-4 How to switch torque wrench settings (angle wrench, double-tightening prevention,

screw tightening inspection)

By switching the settings of the torque wrench, four different uses are

possible with a single torque wrench.

*However, the "-Ang" angle option is required for angle wrenches,

and the "-Dch" angle option is required for twice tightening prevention and screw tightening inspection.

Torque wrenches with angle option are supplied with the angle specification [Adrec.Net] Torque wrenches without angle option are supplied with standard [Adrec.Net]

In [Adrec.Net] with angle specifications,

a wrench selection button appears on the [Setting Operation Screen].

🚺 Torque Control System [Adrec.NET] USER						-		×
File Setting Display Communication	n Help	Torque	Angle	e Poka	i-yoke	Tighte	ningInsp	ection
💕 🖶 🐑 📧 💐 📖 🖉 🔒	a (iii)	1 1 X	Conecting	WirelessID: 1	•			
	Sett	ing op	perati	on 🤷	nnectin wrench	g		

By toggling this button, the item to be set will change.

By setting the required items and writing them into the torque wrench,

the type of torque wrench can be changed.

	Torque wrend	ch				
1	No.	Lower torque	Upper torque	Control number	Next PT No.	Memo mode
	PT01	1	3.5	0	0	Invalid 🗸

Angle wrench						
No.	Snug torque	Lower Angle	Upper Angle	Control number	Next PT No.	Memo mode
PT01	1.5	20	60	0	0	Invalid 🗸

F	oka-yoke						
	No.	Specified angle	Lower torque	Upper torque	Control number	Next PT No.	Memo mode
ľ	PT01	20	1	3.5	0	0	Invalid 🗸

S	crew Tigh	tening Inspection					
ſ	No.	Tolerance angle	Lower torque	Upper torque	Control number	Next PT No.	Memo mode
ľ	PT01	30	1	3.5	0	0	Invalid 🗸



3-5 About pattern settings

The torque wrench can register 10 patterns of settings.

No.	Lower torque	Upper torque	Control number	Next PT No.	Memo mod	e
PT01	1	3.5	0	0	Invalid	~
PT02	1.8	4.2	0	0	Invalid	~
PT03	0	0	0	0	Invalid	~
PT04	0	0	0	0	Invalid	~
PT05	0	0	0	0	Invalid	~
PT06	0	0	0	0	Invalid	~
PT07	0	0	0	0	Invalid	~
PT08	0	0	0	0	Invalid	~
PT09	0	0	0	0	Invalid	~
PT10	0	0	0	0	Invalid	~

Torque wrench

There are two ways to switch patterns.

[Method 1]

How to set the Next PT No. and automatically switch to the next pattern

No-	Lower torque	Upper torque	Control number	Next PT No.	I Memo mod	le
PT01	1	3.5	4	2	Invalid	~
PT02	1.8	4.2	3	1	Invalid	~

In this case, the number of management times must be set. When tightening is completed for a controlled number of times, the machine automatically switches to the set next pattern.

[Method 2]

How to switch the patterns by operation of the torque wrench body In this case, the operation method differs between HTW and DPW.

<DPW Series>

After pressing [Power]+[\diamond] simultaneously, press [\diamond] to switch PT and press[Power] to confirm.





<HTW Series>

After pressing [SET]+[SHIFT] simultaneously, press [S/C] to switch PT and press [SET] to confirm.



4 Functional Details

4-1 Starting Adrec.Net

Click the icon on the desktop to launch Adrec.Net.



4-2 Connection of torque wrench

- 1) Port number setting
 - (1) Place the torque wrench on a level surface, such as a desk top,
 - and turn on the power with no load applied.

If the power is turned on with a load applied, the measurement will not be correct.



*If the display does not show "0" when the power is turned on, a load may have been applied. Turn the power back on with no load.

(2) In case of wired connection, connect the attached USB cable to the USB terminal of the torque wrench, and connect the other end to the USB terminal of the PC.

In case of wireless connection, connect the wireless receiver to the USB port of the PC.



(3) Click the Communication Settings icon to open the Communication settings screen.



(4) For wired connections, set the "Wireline Port No.".

mmunication setting				
Port Settings			Number of w	renches
Wireline Port No.	COM2	~	Number of wrenches	1 ~
Wireless Port No₊		~		Wireless ID setting
Encrypted conne	ction		OK	Cancel



mmunication setting				
Port Settings -			Number of	vrenches
Wireline Port No.		~	Number of wrenches	1 ~
Wireless Port No.	COM4	~		Wireless ID setting
Encrypted connec	tion		OK	Cancel

[How to check the connection port (COM number)]

Right-click on the Windows Start button and click on Device Manager.



*The screen is Windows 10.

Open the Device Manager screen and open "Ports (COM and LPT)".

When the cable or receiver is unplugged or plugged in, the COM number will appear

or disappear, and that COM number will be the COM number of the connected device.



The COM number is not displayed after unplugging and plugging in th

the USB driver may not be installed.

Please install the "USB driver" in the installation procedure.

(5) Press the Set button to exit the Communication Settings screen.

When closing, the following message screen is displayed.



When the port number is changed, all information displayed on the output operation

screen, etc., is cleared, so please save the necessary data before closing.

If saving data is not required, press "Yes" to exit.



Once set, the port number is saved and does not need to be reset. However, if multiple torque wrenches are used, the port number will change for each torque wrench and must be re-set.

2) Torque wrench connection

Torque wrenches make either wired or wireless connections.

2-1) For wired connections

Click the wired connection icon to connect to the torque wrench.



If the connection is successfully made, an audible tone is heard from the torque wrench (setting data is read out) and the display indicates that the connection is in progress (red).



2-2) For wireless connection

Click on the wireless connection icon and select the wireless ID of the torque wrench.



Blue arrows are enabled for Wireless IDs that allow wireless communication.



If it is not enabled, please check the following information.

- Torque wrench is not turned on.
- Wireless ID id wrong.
- Torque wrench and receiver channels do not match.
- The torque wrench is wired to the computer with a cable.

2-3) If the connection fails

If the connection with the torque wrench fails, "Connection f (failed)" will be displayed.



Please review the following information.

- Torque wrench is not turned on.
- COM port number is not correct.
- Torque wrench or receiver is not connected to PC.
- Connecting with other software such as a real-time monitor.

4-3 Setting Operation Screen

Here you can change the settings of the torque wrench.

1) Screen Item Description



Torque Wrench Body Information Section

Connection wrench	Display the type of torque wrench connected.
	"HTW" or "DPW" + "Angle wrench" or "Double-tightening prevention"
	or "Screw tightening inspection"
Wrench type	The wrench size is displayed. Example: "25" for DPW25
Wrench Name	The wrench name is displayed. The name can be freely
	changed on the maintenance operation screen.
Unit Code	A unique name can be set for each setting condition
	(within 8 single-byte alphanumeric characters).
Tightening range	The torque wrench's torque setting range is displayed.
Total number	The number of tightening cycles recorded is displayed.
	Only recorded when MEMO mode is enabled.
Date and Time	Display the date and time set on the torque wrench body.
	This is the date and time when the tightening is finalized.

Torque/ Pattern setting section

Up to 10 different setting information can be recorded on th	e torque wrench.
--	------------------

No.	Pattern No. No1 must be set.					
Lower torque/	Enter the lower and upper torque limit values.					
Upper torque	For left rotation (CCW), enter a minus value.					
Control number	Enter the control number.					
	(0 is no count, and it can be set from 1 to 999 times.)					
	Control number refers to the number of tightening cycles.					
Next PT No.	Set this parameter if you want to automatically shift to the next pattern					
	when the number of tightening operations has been completed.					
	For example, if you want to go back and forth between PT01 and PT02,					
	set the Control number, and enter "2" for Next PT No. for PT01,					
	enter "1" for Next PT No. for PT02.					
	No. Lower torque Upper torque Control number Next PT No. Memo mode PT01 1 3.5 4 2 Invalid					
	PT02 1.8 4.2 3 1 Invalid ~					
Memo mode	When enabled, the torque wrench body records the tightening value.					
	This can be used when a PC is not available at hand.					
	If disabled, the torque wrench will not record the data.					
For Angle wrenches						
Snag torque value	Set the torque value at which angle measurement starts.					
Lower limit angle/	Enter the lower and upper angle limits.					
Upper limit angle						
For Double-tightening	prevention					
Specified angle	Sets the rotation angle to be NG when the bolt is tightened twice.					
	If the rotation is greater than or equal to the set angle, it is OK.					
For Screw tightening i	nspection					
Allowable Angle	Set the rotation angle that is OK when tightening bolt that has already					
	been tightened. If the rotation exceeds the set angle, it will be NG.					

Mode setting section	
Buzzer state	Turn the buzzer sound ON/OFF.
Vibration motor	Turn the vibration motor ON/OFF.
condition	
Date and Time	Reset or set the date and time of the torque wrench.
Setting	When enabled and data is written, those of the computer is set.
AUTO mode	Automatically resets the LCD display and functions after tightening.
	AutoAutomatically reset (display 0).
	ManualThe peak torque value is still displayed.
	Operate the main unit button to reset (display 0).
Wrench Body	*Only HTW series can be set.
Operation lock	Set whether the setting operation can be performed on the body.
	ValidYou can change the upper and lower limits, MEMO mode,
	buzzer, and vibration motor on the torque wrench itself.
	*However, if two or more patterns are set, they can't be changed.
	InvalidIt does not allow changes in the torque wrench itself.
Reset number of	*Only HTW series can be set. DPW is fixed to "Auto".
tightening cucles	When the number of tightening cycles is set, this setting determines
	whether or not the number of times is automatically reset
	(displayed as 0) after the number of times is completed.
	AutoAutomatically reset (display 0).
	Manual <c000> will remain displayed.</c000>
	Reset by pressing [S/C] and [START] simultaneously.
Sleep timer	When tightening is not performed within the set time, the torque wrench
	automatically switches to the idle mode (LCD display off).
	Just move the torque wrench and it will restart.
	Settable time: OFF/ 5 minutes / 10 minutes / 30 minutes / 60 minutes
Auto-Off timer	When tightening is not performed within the set time, the power of
	the torque wrench is turned off. (Sleep timer minutes will be added.)
	Settable time: OFF / 1 hour / 4 hours / 8 hours
Advance warning 1-5	Buzzer sound and vibration motor can be sounded at any rate up
	to the lower limit torque value. This is a function to notify operators.
	Settable %: 10 to 90%
	Warning tone: Pattern 0 (high tone) to 10 (low tone)
	*Please set them in order from 1.
Interval time	*Settable only for angle wrenches, double-tightening prevention,
	and screw tightening inspection
	Set the time to hold the angle value when the wrench is loosened.
	The angle value is held for the time set here, and the angle is
	accumulated when the wrench is tightened again. The angle is
	reset to 0 after this time has elapsed while the wrench is loosened.
	*To use it for double-tightening prevention, turn the inspection mode
	OFF and set the tightening direction to single direction.
	Both settings are made on the maintenance operation screen.

2) Check torque wrench settings

Torque wrench settings can be read and confirmed.

Torque wrench, angle wrench, double-tightening prevention,

and screw tightening inspection all operate the same.

(1) Connect the torque wrench from "4-2 Connection of Torque Wrench".



(2) From the [Read Data] icon, read the settings of the torque wrench.



3) How to rewrite torque wrench settings

(1) Perform "2) Check torque wrench settings" to display the torque wrench settings.



(2) Change the contents to be written to the torque wrench by operating the screen.



(3) Click the [Write Data] icon to write the settings to the torque wrench.



Note
If the tightening value is recorded in the main body of the torque wrench,
the following warning will be displayed and writing cannot be performed.
(This occurs when MEMO mode is enabled.)
Adrec X
There is memory left on the wrench. Please write the set value after clearing the memory.
ОК
Writing settings to the torque wrench should be done after deleting the record in it
from the [Erase Memory Data] icon.
*Deleted data will not be restored. Please save the necessary data before doing so.
Frase Memory Data

4) How to save and load torque wrench settings

Torque wrench settings can be saved and the saved settings can be called up and written to the torque wrench.



🔘 configurable	DPW10 \rightarrow DPW10, HTW25 \rightarrow HTW25
X cannot be set	DPW10 $ ightarrow$ DPW25, DPW $ ightarrow$ HTW, HTW $ ightarrow$ DPW

- Configuration files with different versions of Adrec.Net may not be readable
- $\boldsymbol{\cdot}$ The setting file for angle (.rnd) cannot be used for torque wrenches
- that do not have an angle option.

[How to save settings]

(1) Perform "2) Check torque wrench settings" to display the torque wrench settings.



(2) Click the "Save As" icon to save the settings file.

Select a destination and save the file with a name of your choice.



[How to read settings]

(1) Perform "2) Check torque wrench settings" to display the torque wrench settings.



(2) From the "Open" icon, select and open the settings file.



The saved settings are displayed and can be written directly into the torque wrench.



- 5) Optional functions
 - 5-1) How to change the upper limit of set torque
 - The upper limit torque setting limit can be freely changed. Settable range : 10 to 150% of maximum torque Default setting value: 100%.

For example, in the case of DPW10 the maximum torque is "10", so the upper limit torque that can be set normally (100% setting) is up to "10" N-m. When 150% is set, it is possible to set the upper torque limit to "15" N-m.

Note

· Please be careful when handling the torque wrench, as the wrench itself may be damaged if significantly exceeding the proper range is applied. Use of proper size is recommended.

(1) Open the options screen from the [Options Settings] icon.



Options Settings

File creation setting Data display time lsec File creation setting Data display time lsec File creation setting Data display time lsec Data disp	Setting Display Communication Help Setting operation Setting operation Setting operation Setting operation Setting operation Sug torque Settable \$ Up to 100 % of maximum torque Sug torque Settable \$ Up to 100 % of maximum torque Sug torque Settable \$ Transfer setting ta display time 1sec Sug torque Settable \$ Transfer in the Organise of the CSV format I creation setting Auto save ave destination Terefer Sug torque Settable \$ Sug torque Settable \$ Transfer in the Organise of the CSV format Sug torque Settable \$ Sug torque S	e Control System [Adrec.NET] USER		
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tion Setting operation Maximum torque Settable % Up to 100 % of maximum torque From 5 % of maximum Setting operation Data display time 1sec Data display time 1sec Auto save Save destination Optional input function Optional input	n etting operation aximum torque Settable X Up to 100 % of maximum torque etting operation ta display time 1sec ta display time 1sec ↓ Transfer in the O Transfer in the © Transfer in the O CSV format le creation setting J Auto save ave destination vtional input function] Optional input	Sett	ing operation	Connecting wrench
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optional input name note	prional input name note	Tunai Input name note		
	OK Cancel		OK	Cance I

(2) Change the [Maximum torque settable %] and press the OK button. Specifiable range: 10 to 150%.

Maximum torque Settable 🖇 👘	Snug torque Settable \$
Up to 100 % of maximum torque	e from 5 % of maximum torque

5-2) How to change snag torque setting %.

*This is used when an angle wrench is used.

The setting range of the snag torque value can be freely changed. Setting range : 1 to 100% of maximum torque

Default setting: 5%.

For example, in the case of DPW10 the maximum torque is "10", so the snag torque value that can be set normally (5% setting) is from "0.5 to 10" N-m.

Note	
 If the snag torque value is too small, angle measurement starts immediately. 	

(1) Open the options screen from the [Options Settings] icon.

	🗾 トルクレンチ管理ツール [Adrec.NET] USER	
	ファイル 設定 表示 通信 ヘルプ	
	🚰 🔚 🌇 🔚 🖳 🦑 🏭 🚙 🕺 🛔 🎓 🏋 🤸 🦛 🛲 🕬 2 🔹 📕	
Options Settings	以足l末lF	
	Option	
	_Setting operation	1
	Maximum torque Settable %Snug torque Settable %	
	Up to 100 % of maximum torque from 5 % of maximum torque	
	Catting accepting	1
	Excel transfer setting]
	Data display time Isec	
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	File creation setting	
	Auto save	
	Save destination refer	
	Optional input function	
	Detional input	
	Optional input name note	
	0K Cancel	1
		1

(2) Change [Snag torque settable %] and press the OK button. Specifiable range: 1 to 100%.

Maximum torque Settable 🖇 👘 👘	Snug torque Settable %
Up to 100 % of maximum torque	from 5 % of maximum torque

4-4 About the output operation screen

Here, you can display tightening values, extract data from tightening results, save data, and perform other operations on tightening results.

1) Screen Item Description

1-1)[Measured Value Display] tab



Torque Wrench Body Information Section

Wrench type	The wrench size is displayed.
Lower torque/	The currently set lower and upper torque limit values are displayed.
Upper torque	
Control number	Display "Current number of tightening / Number of control times set".
	If not set, it is 0/0 and does not count.
Total number	Counted when MEMO mode is enabled. Count the number of
	tightening cycles from the time the memory data is erased until it is
	erased again. 0 is displayed when MEMO mode is invalid.
Fixed date and time	Display the date and time of tightening.
	*Use the time and date timer time set on the torque wrench itself.
Wrench ID	Display the wrench ID (wireless ID) of the torque wrench that
	was tightened. If wired, 0 is displayed.
Online mode	Switch to online mode.
	See also: 2-3) Real-time display in online mode

Measured Value Display Section

It displays the measured value.

For angle wrenches, double tightening prevention,

and screw inspection, angle values are also displayed.

Display torque & angle



1-2)[Wrench Details] tab

File Se		· Andreastan · Annala			- 🗆 X	
	etting Display	Communication Help				
🗃 📙		📖 🔗 🔒 🥪 🖊 1	Conecting Wire	lessID: 1 🛛 🗸		
		Data outpu	ut operation	Connecting wrench	DP₩	
Measure	ed value Wrenc	ch detail				
File na	ame	W	rench name			Town Mounds Dealer
Data Im	mport date	U	nit code			L Torque Wrench Body
Wrench	type 10	Ţ	orque range ±1.00	\sim 10.00	1	Information Section
Unit	N • n	n M	fg No. 4061803	3 – 2002R	Display clear	
Addres	s Name	Lower torque Upper torq	ue Control number	lorker 🛛		
1	PT01	1 3.5	0			
						Setting Condition
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Torque Wrench Body Information Section

File name	The file name is displayed when the saved file is opened.	
Date import date	The date and time when data was read from the torque wrench	
	is displayed.	
Wrench type	The wrench size is displayed.	
Unit	The currently set units are displayed.	
Wrench name	The currently set wrench name is displayed.	
Unit code	The currently set unit code is displayed.	
Torque range	The torque wrench's torque setting range is displayed.	
Mfg No.	The serial number of the torque wrench is displayed.	
Display clear	Clears the setting condition display section	
	and the data details display section.	

Setting Condition Display Section

Address	This is the number to link to the statement.		
	If the control count is 0, it is fixed at "1".		
	If the number of management times is 1 or more,		
	a sequential number is assigned for each management time.		
Name	The pattern number is displayed by default,		
	but can be changed freely.		
Lower torque	Display the set lower torque limit.		
Upper torque	Display the set upper torque limit.		
Control number	Display the number of management times that were set.		
Worker	You can enter freely.		

Data Detail Display S	ection		
Address	Same as setting condition display section		
Name	Same as setting condition display section		
Torque	Display peak torque value.		
Peak angle	Display peak angle values. Only shown for angle wrenches,		
	double-tightening prevention, and screw inspection.		
Operation date	Display the date and time the tightening was performed.		
	*Use the time and date timer time set on the torque wrench itself.		
Tightened number	Display the number of times counted in the management frequency unit.		
	If the management frequency is 0, it is fixed at "0".		
Control number Same as setting condition display section			
Total number	Counted when MEMO mode is enabled. Counts the number of		
	tightening cycles from the time the memory data is erased until it is		
	erased again. 0 is displayed when MEMO mode is disabled.		
Remarks	This is displayed when the optional input function is used.		
	You can enter freely.		
	Reference: 4-4 About Output Operation Screen 4-4)		
	Arbitrary Input Function		

2) Display of tightening fixed value

It displays the result of tightening with a torque wrench.

2-1)[Measured Value Display] tab

The [Measured Value Display] tab displays the result of the measurement at that time.

When a tightening result is received from the "0" state,

the result is displayed and the display returns to "0" again.

Even if multiple wrenches are used, they will be switched and displayed.

The display time of measured values can be changed by option setting.

(Standard setting: 1 second)



2-1-1) How to change the number of wrenches displayed

The number of wrenches displayed can be changed to 1, 4, 8, or 16 by setting.

*However, it is only for wireless connection.

Wired connections will always be displayed as a single line.

The number of displays is changed from the communication settings screen.



Number of wrenches = 1



Number of wrenches = 8

Wrench type	Wrench		Wench type	Wrench	
Lower forque	ter ench 10 0		Lover foreix	watch	
Libper torque		0.0 _{N*m}	Ubper forexe	0	0.0 Nrm
Control num			Control num		
Total oum			Tetal rem		
Date			Date		
Wench fype	Wrench		Wench type	Wrench	
Lower targue	wenth	_	Lower torgue	wanth :	
Libber forous	10	0.0	Liboer Torque	10	0.0
Control num	0	0.0	Don froi num		U.U N.m.
Total num			Tetal rom		
Date		Date	Date		
Wench Type	Wrench		Wrench type	Wreach	
Lover torque	[srench]		Loner foreve	mranch]	
Laper torous	10	0.0	Libour foreix	10	0.0
Costrol num		0.0	Oon trut num		U.U N.m.
Total num			Total new		
Date			Date		
Wrench type	Wrench		Wrench type	Wrench	
Loter torpe	wrench		Lower torave	se anch	
Upper torque	10	0.0	Libber foreve	10	0.0
Control num		U.U N	Don trol num		U.U N.m.
Total num		2000 C	Total non		Contraction (Marine)
Date			Date		



Simultaneous reception

and display are possible.

Number of wrenches = 16

Loner torgos	Wrench	Lover torgan	Wrench	Lower torque	Wrench	Lower torque	Wrench
Libber torous	wrench	Libper tonove	arenth	Libber forous	wanch	Lipper forgue	ar each
Control num	19	Confrol num	10	Costrol num	10	Control num	19
fotal cum	0	Tetal non	0	Total num	0	fotal num	0
Date		Date		Date		Date	
(0.0	().O "	().O N-m		0.0
Loter targue	Wrench	Lower forgue	Wrench	Loner forque	Wrench	Lower torque	Wrench
Libber forque	wranch	Ubper forow	watch	Ubper forme	wanth	Lipper forgue	aranob.
Control num	10	Control num	10	Costrol sum	10	Control num	10
Total num	0	fetal nom	0	Total new	0	fotal num	0
Date		Date		Date		Date	
(0.0	().0 "···	().0 _{N·m}		0.0 N·m
Lowr torous	Wrench	Lower forgue	Wrench	Lower torque	Wrench	Lower forese	Wrench
Upper torow	wrench	Liber foreve	ar such	Ubper torque	watch	Liberer foreus	ar anch
Control num	10	Control num	10	Control nem	10	Control nem	10
Total num	0	Fotal nom	0	fotal num	0	Total num	0
Date		Date		Date		Date	
(0.0	().0 "···	0).0 N-m		0.0 N·m
Lover torous	Wrench	Lower torpus	Wrench	Loner forque	Wrench	Lower toreus	Wrench
Libber Torous	wrench	Libser forque	ar shith	Ubper forme	wanch i	Upper forese	watch
Control num	19	Control num	10	Control num	1 D	Control num	10
Total num	0	Total nom	0	fotal num	0	fotal num	0
Date		Date		Date		Date	
(0.0 N·m	().0 _{N-m}	().O "		0.0 н.

The wrench to be displayed can be changed from the Wireless wrench ID Settings screen. Set the wrench ID you want to display.

Number of wr Number of wrenches	enches I	~						Wrench nan	ne
ſ	Wireles	s ID		Vrench type	10		Trench1	french type	Trench3
	setti	ng		Lower torque	1		wrench ID	Lower torque	wrench ID
				Upper torque	3.5		1	Upper torque	0
		L		Control number	0/0	Total number	0	Control number	Total number
			_	Operation date	3/28/2023 2	2:17:44 PM		Operation date	
Set the ID nu wireless wren	mber of ch.	the			1.	17	N·m		0.0
Wrench1	1	×		Vrench type	5		French2	Wrench type	Trench4
Wasash0	0			Lower torque	2.3		wrench ID	Lower torque	wrench ID
wrenchz	Z	~		Upper torque	3.5		2	Upper torque	0
Wrench3	3	~		Control number	0 / 0	Total number	3	Control number	Total number
Wrench4	4	~		Operation date	3/28/2023 2	:19:38 PM		Operation date	
ID reset	OK	Cancel		2	2.5	78	N·m		0.0 _{N·m}

2-2)[Wrench Details] tab

The [Wrench Details] tab displays the results of tightening in a list format.

Since it is stored in units of Wrench ID (Wireless ID),

the display switches when the Wireless ID is switched.

Torque	Control System [Adrec.NET] USE	ł					
File Se	tting Display	Communicatio	on Help					
)	🐴 🗐 🕌	III & 🔒	a ()	1 † 🗙	Conecting	WirelessID: 1		
	WirelessID:	1 •				WirelessID:	2 •	
·ス 名称 PT01	下限トルク 上限トルク 1 2.5	管理回数 作業者 0		display	Fレス 名称 下限 PTO1	トルク 上限トルク 管理 2-5 3	理回該 作業者 0	
1								
				switching				
1101				switching				
				switching				
7. 名称	利文値 (福空日時 1800 1802 484 49 40 49 47 47 48	回放 管理回放 把回放		switching	<レス 名朴 満定日 1001 一 0 0	· 國家日時 1999年14,4,902年50	2 管理回放 经回放	
· TO PT01 PT01	최定値 西定日時 1.02 (2023/01/14 09:40:56 1.03 (2023/01/14 09:47:05	(回放 管理回放 経回放 0 0 0 0 0 0		switching	デレス 名称 漁定価 PT01 8 PT01 8	荷家三日왕 5 2023/01/14 09:45:59 2 2023/01/14 09:45:37	R 常理回致 #4回数 0 0 0 0 0 0	
·····································	測定値 尋定日時 1-02 (2023/01/14 09:40:56 1-03 (2023/01/14 09:47:05 1-05 (2023/01/14 09:47:05	回訳 〒単地の次 建立数 0 0 0 0 0 0 0 0		switching	ドレス 名称 満定個 PT01 2・J PT01 3・ PT01 2・J	Ref 2: 198 Coltx 5 2023/01/14 09:445:39 2 2023/01/14 09:445:37 4 2023/01/14 09:445:39	2 2	

For wired connections, there is no switching. Only results from wired torque wrenches are listed.

🚺 To	rque Contr	ol System [Adrec.NET]	USER							<u></u>
File	Setting	Display	Communi	cation He	lp						
6		1	1	8 -	(6) 🖡	117	K	Conecting	WirelessID:	-	
Address N 1 P	lame Lover TO1	torque Upper tor 1 3.5	que: Control number	Vorker 0							
							ما:مە		to of wind	+	
						←Oniy	aisp	biay resul	ts of wired	torque	wrench
Address N 1 P	Torque TOT 1.17	Operation date 7 2023/03/28 14:23:	23	r Control number Tot 0 0	al number O						
1 P 1 P	TO1 1.58 TO1 1.63	3 2023/03/28 14:23: 3 2023/03/28 14:23:	25 26	0 0	0						

In the setting condition display section, a line is added when the torque setting value changes, and the respective measurement results are displayed in the data detail display section. In the case of pattern setting, the following is displayed.

Address	Name	Lower t	orque U	pper torque	Control	number	Worker
1	PT01	1		3.5		5	
2	PTUZ	1.	z	Z		4	
3	PT03	1.	6	3.5		3	
4	PT01	1		3.5		5	
	Settin	og Con	ditio	n Disn	av S	ection	n
	Settin	ig Con	ditio	n Disp	lay S	ectio	n
Address	Settin	Ig Con	ditio:	n Disp	lay S	Contr	N Tot
Address 1	Name PT01	Torque	Operation 2023/03/2	n Disp	Tig	Contr	N Tot
Address 1 1	Name PT01 PT01	Torque 1.04 1.45	ditio 00eratio 2023/03/2 2023/03/2	n Disp n date 28 14:28:10 28 14:28:11	ay S	Contr	n Tot 1 2
Address 1 1 1	Name PT01 PT01 PT01	Torque 1.04 1.45 1.70	Operation 2023/03/2 2023/03/2 2023/03/2	n Disp n date 28 14:28:10 28 14:28:11 28 14:28:13	ay S	Contr	Tot 1 2 3
Address 1 1 1 1	Name PT01 PT01 PT01 PT01 PT01	Torque 1.04 1.45 1.70 1.69	Operation 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2	n Disp n date 28 14:28:10 28 14:28:11 28 14:28:13 28 14:28:14	ay S	Contr	Tot 1 2 3 4

2-2-1) Readout of measurement dataWhen measurement is performed with MEMO mode enabled, the measurement results are stored in the torque wrench's memory.It reads out the recorded results.

Recommended It is recommended to use "wired connection" for reading out measurement data. Wireless connections can also be used, but communication problems may cause missing data or increasing the time required.

(1) With the [Wrench Details] tab open, read out the data.



(2) Data readout starts and the measurement results are displayed.

Screen Display	LCD display of torque wrench
Address Name Lower torque Upper torque Control number Vorker PTOI 1 3.5 0	
Address Name Torque Operation date Tightened number Control number Total 1 PT01 1.17 2023/03/28 14:23:23 0 0 0 1 PT01 1.58 2023/03/28 14:23:25 0 0 0 1 PT01 1.68 2023/03/28 14:23:25 0 0 0	0 0 0 0

(3) To delete the main unit memory data, use [Memory Data Erase].



2-2-2) Data Editing (Change of Name and Worker)

The "Name" and "Worker" can be changed freely.

Address	Name	Lower t	torque Upp	per torque	Contro	l number	Worker
1	PT01	0 1		3.5		5	
2	PT02		2	2		4	
3	PT03		6	3.5		3	
4	PT01	1		3.5		5	
							1+-1
Address	Name	Torque	Operation	date	Tig	Contr	Tot
Address 1	Name PTO1	Torque	Operat ion 2023/03/28	date 14:28:10	Tig	Contr	Tot 1
Address 1	Name PTO1 PTO1	Torque 1.04 1.45	Operation 2023/03/28 2023/03/28	date 14:28:10 14:28:11	Tig 1 2	Contr 5 5	Tot 1 2
Address 1 1 1	Name PT01 PT01 PT01	Torque 1.04 1.45 1.70	Operation 2023/03/28 2023/03/28 2023/03/28	date 14:28:10 14:28:11 14:28:13	Tig 1 2 3	Contr 5 5 5 5	Tot 1 2 3
Address 1 1 1 1	Name PT01 PT01 PT01 PT01 PT01	Torque 1.04 1.45 1.70 1.69	Operation 2023/03/28 2023/03/28 2023/03/28 2023/03/28	date 14:28:10 14:28:11 14:28:13 14:28:14	Tig 1 2 3 4	Contr 5 5 5 5 5	Tot 1 2 3 4

■Change of Name

Click on the "Name" you want to change, and the entry screen will appear.

Enter the name to be changed and press the Bulk Reflect button

or the Reflect button.

Vame	
	Name M3 screw
	Adu Opuale
Delete	
	Bulk Reflect Reflect Cancel

Bulk Reflect...Converts all selected wording Reflect...only the selected data will be converted

If you press the Bulk Reflect button, all "PT01" will be converted to "M3 screw". The statement data is also converted together.

Address	Name	Lower torque	Upper torque	Contro	l number	Worker
1	M3 screw	1	3.5		5	
2	PT02	1.2	2		4	
3	PT03	1.6	3.5		3	
4	M3 screw	1	3.5		5	
Address	Name	Torque Imera	tion data	Tie	I Cont r	Lint
Address	Name M3. scraw	Torque Opera	tion date	Tig	Contr	Tot
Address 1	Name M3 screw M3 screw	Torque Opera	tion date)3/28 14:28:10)3/28 14:28:11	Tig 1 2	Contr	Tot 1 2
Address 1 1	Name M3 screw M3 screw M3 screw	Torque Opera 1.04 2023/0 1.45 2023/0 1.70 2023/0	tion date)3/28 14:28:10)3/28 14:28:11)3/28 14:28:13	Tig 1 2 3	Contr 5 5 5	Tot 1 2 3
Address 1 1 1 1	Name M3 screw M3 screw M3 screw M3 screw	Torque Opera 1.04 2023/0 1.45 2023/0 1.70 2023/0 1.69 2023/0	tion date 03/28 14:28:10 03/28 14:28:11 03/28 14:28:13 03/28 14:28:14	Tig 1 2 3 4	Contr 5 5 5 5 5	Tot 1 2 3 4

It is convenient to register frequently used names.

Enter a name and click the Add button to register.

To change the registered name, click the Update button to register the change.

Unnecessary names are deleted with the Delete button.

Setting input Name M3 screw M4 screw Registered Name Delete	Name	Add	Update
	Bulk Reflect	Reflect	Cancel

■ Change of worker

Click on the "Worker" you want to change, and the entry screen will appear.

Address	Name	Lower torque	Upper torque	Control number	Worker	
1	M3 screw	1	3.5	5	0	
2	PT02	1.2	2	4	6 m	~ !·
3	PT03	1.6	3.5	3		CIIC
4	M3 screw	1	3.5	5		

The worker can be changed by entering the worker and pressing the Reflect button.

Setting input		2 ¹				60
Operator						
	Operator	adrec]	
					1	
				Reflect	Cano	cel

Address	Name	Lower torque	Upper torque	Control number	Worker
1	M3 screw	1	3.5	5	adrec
2	PT02	1.2	2	4	
3	PT03	1.6	3.5	3	
4	M3 screw	1	3.5	5	

2-3) Real-time display in online mode

The measured value is normally displayed only as a definite value, but by using the ON-line mode,

real-time values up to the definite value can be displayed.



Select "ON" and switch to ON-line mode with the "Switching" button. When tightening, the background turns yellow and the real-time value is displayed until the lower limit is reached, and after the lower torque limit is reached, the background turns light blue and the peak is held.

Real-time values are displayed up to the lower torque limit



Peak hold is always applied after the lower torque limit is reached.



Tightening results in On-line mode can be output to CSV file including real-time values. Click the "CSV file data output start" button and specify the destination for the CSV file.

🕂 🕂 🕇 📥 > This PC > Desktop >	~	õ	,P Search Desktop	
Organize 🕶 New folder			10 •	0
This PC To Point				
and some first and some			and the fit and	

By tightening with a torque wrench, a CSV file can be created at the specified location. While "Start CSV file output" is being performed, the measured values are written to a CSV file.



The CSV file outputs the "Relative time" and "Measured value" of the tightening start date and time.

雄 品 ち・ご・・ ファイル タッチ ホーム 挿入 ページレイアウ	onli ト 数式 データ 校閲	ineData.c 表示	sv - Excel 開発					? 🖭	
E5 · I × ✓ fk									
A A	В	С	D	E	F	G	н	I	J
1 2023/03/28 02 33:41 28(Relative time)	Measured value								
2 2.75	2 0.1								
3 0.0	5 0.1								
4 0.00	0.11								
5 0.00	0.11								
6 0.03	5 0.12								
7 0.05	5 013								
8 0.0	0.14								
9 0.0	0.14								
10 0.05	0.15								
11 0.00	0.16								
12 0.05	5 0.17								
13 0.0	5 0.19								
14 0.00	0.21								
15 0.0	5 0.23								
16 0.0	0.25								
17 0.0	5 0.26								
18 0.05	5 0.27								
19 0.0	0.28								
20 0.06	0.28								
21 0.0	0.28								
onlineData	0.00								1
(+)		_			-				
- 御完了					Ę				+ 100%

The final line outputs the fixed time and the fixed value (peak hold value).

1 5· C	- ¥	onlir	neData.c	sv - Excel					? 1	2 >
ファイル タッチ	ホーム 挿入 ページ レイアウト	数式 データ 校閲	表示	開発						A · P
A113 *	: × ✓ fr									
	A	В	С	D	E	F	G	н	I	J
85	0.03	1.53								
86	0.05	1.55								
87	0.06	1.55								
88	0.03	1.55								
89	0.06	1.55								
90	0.05	1.55								
91	0.05	1.55								
92	0.05	1.56								
93	0.05	1.6								
94	0.05	1.6								
95	0.05	1.6								
96	0.05	1.6								
97	0.05	1.6								
98	0.05	1.6								
99	0.09	1.6								
00	0.05	1.6								
.01	0.05	1.6								
.02	0.09	1.6								
03	0.16	1.6								
.04	33:49.0	1.6								
05										
ne	a Data									
oniii	nevata (+)				1 4					•

To terminate CSV output, press the "Stop CSV file output" button.

ON-li	ne mode	•	
● ON	O OFF	switching	CSV file data output stop

Note

Once output of a CSV file has been stopped, even if the same CSV file name is used to start the file again, <u>it will not be appended to the CSV file and its contents will be overwritten</u>. When outputting a CSV file again, please be careful not to overwrite the file by renaming it or otherwise.

3) Method of exporting tightening values (Excel output, CSV output)

	, ,	
-		Output to EXCEL format or CSV format.
	EXCEL data transfer	Output in this format <u>cannot</u> be read back by Adrec.Net.
		Data storage file for Adrec.Net, output in DAT file format
	Sava ac	(data file).
	Save as	If output in this format, it <u>can</u> be read by Adrec.Net.
		*it may not be possible to read out due to different versions.

There are two ways to export measurement results.

3-1) EXCEL data transfer

Select either EXCEL format or CSV format for output.

File name					Wrench name	DPW1	0		
Data Impo	rt date	3/28/2023 2:29	:17 PM		Unit code				
French ty	pe	10			Torque range	±1.	±1.00 ~ 10.00		-
Unit		N-m			Mfg No.		803	- 2002R	Display clear
Address	Nane	Lower	torque U	oper tor	que Contro	I number	Vorke	r	
1	PT01		1	3.5		5			
2	PT02	1.	.2	2		4			
Address	Nane	Torque	Operation	n date	Tig	Contr	Tot		
Address	Name	Torque	Operation	1 date 8 14:37	1ig	Contr	Tot	-	
Address	Name PT01 PT01	Torque 1.35 1.41	Operation 2023/03/2 2023/03/2	date 8 14:37 8 14:37	11g	Contr 5 5	Tot	12	
Address	Name PT01 PT01 PT01	Torque 1.35 1.41 1.28	Operation 2023/03/2 2023/03/2 2023/03/2	1 date 8 14:37 8 14:37 8 14:37 8 14:37	1 ig 12 i 13 2 143 2 145 3	Contr 5 5 5	Tot	1	
Address	Name PT01 PT01 PT01 PT01 PT01	Torque 1.35 1.41 1.28 3.72	Operation 2023/03/2 2023/03/2 2023/03/2 2023/03/2	n date 8 14:37 8 14:37 8 14:37 8 14:37 8 14:37	1ig :42 1 :43 2 :45 3 :47 3	Contr 5 5 5 5 5	Tot	2 3 4	
Address	Name PT01 PT01 PT01 PT01 PT01 PT01	Torque 1.35 1.41 1.28 3.72 1.22	Operation 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2	1 date 8 14:37 8 14:37 8 14:37 8 14:37 8 14:37 8 14:37 8 14:37	1/1 g 142 1 143 2 145 3 147 3 147 4 148 4	Contr 5 5 5 5 5 5 5 5	Tot	1 2 3 4 5	



EXCEL format

Α	В	С	D	E	F	G	н
ile name:							
fime and date of data	3/28/2023 14:29				itout	F DTO	1
forque range:	$\pm 1.00 \sim 10.00$				acpu		•
ower torque:	1						
Jpper torque:	3.5						
Control number:	5						
Jnit:	(N•m)						
Jnit code:							
Vrench name:	DPW10						
Serial number:	4061803-2002R						
Vrench type:	DPW-10						
lame:	PT01						
Vorker							
PT01	1	2	3	4	5	6	
	1.35	1.41	1.28	3.72	1.22	1.33	
3/28/2023	2:37:42 PM	2:37:43 PM	2:37:45 PM	2:37:47 PM	2.37.49 PM	2.37.56 PM	
ile name							-
ime and date of data	3/28/2023 14:29			- 0	utou	t P I O	2
orque range:	$\pm 1.00 \sim 10.00$					••••	_
ower torque:	1.2						
Jpper torque:	2						
Control number:	4						
Jnit:	(N•m)						
Jnit code:							
Vrench name:	DPW10						
Serial number:	4061803-2002R						
Vrench type:	DPW-10						
lame:	PT02						
Vorker							
PT02	1	2	3	4			
	1.47	1.36	1.39	1.34			
				the second se			

CSV format

• I ×	$\checkmark f_x$					
А	В	C	D	E	F	G H
0000 /0 /00 / 14:00:17				-		+ DTO1
+1.00 ~ 10.00					Julpi	ΙΓΡΙΟΙ
(Ntm)						
(14.11)						
DPW10						
4061803-2002R						
PT01						
1						
3.5						
5						
PT01	1.35	2023/3/28/ 14:37 42	1	5	1	
PT01	1.41	2023/3/28/ 14:37:43	2	5	2	
PT01	1.28	2023/3/28/ 14:37:45	3	5	3	
PT01	3.72	2023/3/28/ 14:37:47	3	5	4	
PT01	1.22	2023/3/28/ 14:37:49	4	5	5	
FIG	1.00	2020/0/20/ 14:0/00	9	9		
0003/3/08/ 14:00:17				_	Outpu	IT DTO2
+1.00 ~ 10.00					Jucp	JUI 102
(N•m)						
DPW10						
4061803-2002R						
PT02						
1.2						
2						
4						
PT02	1 47	2023/3/28/ 1438:00	1	4	7	
PT02	136	2023/3/28/ 1438.01	2	4	8	
PT02	1.39	2023/3/28/ 1438.02	3	4	9	
PT02	1 34	2023/3/28/ 14:38:03	4	4	10	

Measurement values are output in the right direction. Measured values are output downward. The overtorque value will be red.

(1)From the options screen, select the output format.

Once set, the setting is saved and does not need to be set again.

Option Setting	Option Setting operation Waximum torque Settable % Up to 100 % of maximum torque from 5 % of maximum torque
	Setting operation Data display time lsec File creation setting
	Auto save Save destination Optional input function Optional input name note
	OK Cance I

(2) Open [Wrench Detail] tab, and while the measured values are being output, click [EXCEL Data Transfer] icon to output the data.

Image: Contract of the second rate of the secon	CEL Data ransfer	Neasured value Vrench File name Data Import date 3/26 Wrench type 10 Unit N*m Address Name 1 PT01	Data oi 1 detail	Utpu Vre Uni Tor	t operation	on Connect i	DP₩					
EL Data insfer Heaured value French detail Historic data //W/2022 22317 PH Historic data Historic data //W/2022 22317 PH Historic data //W/2022 PH Histo	CEL Data ransfer	Neasured value Vrench File name Data Import date 3/26 Wrench type 10 Unit N·m Address Name 1 PT01)/2023 2:29:17 PM	Vre Uni Tor	ench name D							
Inster It is name trench type It is not date 3/20/2029 2/20:11 PM It is not date If is not date It is not is not is not not is not not is not not is not not not	ansfer	File name Data Import date 3/20 Wrench type 10 Unit N•m Address Name 1 PT01	3/2023 2:29:17 PM	∛re Uni Tor	nch name D	2010						
Nister Use I sourt data 2/28/2023 2:28:17 PH Unit t data Use I sourt data Diselex clear Unit New	anster	Data Import date 3/26 Vrench type 10 Unit N·m Address Name 1 PT01	3/2023 2:28:17 PM	Un i Tor	AND CONTRACTOR	ewild.						
Uncert type 10 Display Display Display Display Clear Mutress Nove Cover forces User forces Control router Finance		Vrench type 10 Unit N·m Address Name 1 PT01		Tor	t code							
Late Product Description Description Description 1 P101 1 3-5 5 Description Description 2 P102 1.2 2 4 Description Description 1 P101 1.35 Description Total Description Description 1 P101 1.35 DESCRIPTION Total Description Description Description 1 P101 1.42 DESCRIPTION		Address Name		HE	que range	$(1.00 \sim 10.00)$	D	splay clea	r			
Indices Product Control District District 2 P102 1.2 2 4 Image: State of the st		1 PT01	Llower tergue Ulland	ni s	A Dontrol number	J61605 - 2002k						
2 P102 1.2 2 4 Address Name Torse Overall lon dot 11 s Control Tot 1 P101 1.35 1023/10/28 1437 12 1 10 tot 1.41 1023/10/28 1437 12 1 10 tot 1.41 1023/10/28 1437 12 1 10 tot 1.41 1023/10/28 1437 12 1 1 10 tot 1.41 1023/10/28 1437 1 1 1 1 1 1 1 1 1 1 1 1 1 1.02 1			Lower torque oppe	3.5	e concror numbe	5						
Address Name Toreas Operation Toreas Contracts Toreas Doublatise Example Provide		2 PT02	1.2	2		4						
Address Name Toroutility Overal form Ontrol Total 1 PT01 1.35 (2022/03/28) 1437 Image: Control Image: Contro Image: Co												
Address Hase Torque Overtail in date Tig Tortu Doublisher Booklisher Excl ? E - 1 PT01 1.48 2023/03/28 1433 Booklisher Excl ? E - Booklisher ? E -												
Address Have Toraue Observation Outfree Total 1 PT01 1.35 2023/03/28 1437 Pt0 1 BookLabse - Exced ? 20 ? 20 Pt0 1 BookLabse - Exced ? 20 20 ? 20 20 20 20 20 20 20 20 20 20 20 20 20 20												
Materies Nase Torque Overation data Tig Control Torue Doot.take Excl Picition Picition <th></th>												
Address Name Torque Overation date 11/2 Control Ister BookLubsr-Excel 7 / 12 1 PT01 1.45 2023/03/28 14.35 14.35 14.35 14.35												
Address Torque Operation date Tig Contr Torue 1 P101 1.41 2023/03/26 1437 Image: Contr Book1.xtxx-Excel ? Image: Contr Book1.xtxx-Excel ? Image: Contr P101 1.41 2023/03/26 1437 P101 1.28 2023/03/26 1437 P101 1.28 2023/03/26 1437 AA AA A												
Address Name Torque Operation Tig Donkt.vitor Each ? Each 1 PT01 1.45 2023/03/20 1437 PT01 7 B2 PT01 7 B2 PT01 7 B2 PT01 1.48 2023/03/20 1.37 PT01 1.28 2023/03/20 1.37 PT01 1.22 2023/03/20 1.35 2023/03/20 1.45 PT01 1.22 2023/03/20 1.45 PT01 1.22 2023/03/20 1.45 PT01 1.33 2023/03/20 1.45 PT01 1.22 2023/03/20 1.45 PT01 1.33 2023/03/20 1.45 PT02 1.22 1.35 1.22 1.35 1.22 1.35 1.22 1.35 1.22 1.35 1.22 1.35 1.22 1.35 1.22												
I PT01 1.35 2023/03/28 14.37 PT01 1.41 2023/03/28 14.37 PT01 1.42 27.46 Pt7 A A A Pt7 Bookt.Laker_Ebxol 7 D 1 PT01 1.28 2023/03/28 14.37 Pt7 A A A Pt7 B C D E F G H 1 PT01 1.28 2023/03/28 14.37 A <		Address Name	Torque Operation_d	late	Tig., Contr.	Tot						
1 P101 1.41 1023/08/28 14:3 7 12 - BookLassr-Eacel 7 12 - 1 P101 1.28 2023/08/28 14:3 7 12 - - 5 12 - 6 12 5 12 - - 6 12 5 12 - - 6 12 6 12 - - 6 12 - - - 6 12 - <td></td> <td>1 PT01</td> <td>1.35 2023/03/28</td> <td>14:37 . 49</td> <td>1</td> <td>E 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1 PT01	1.35 2023/03/28	14:37 . 49	1	E 1						
I P101 1.28 2023/09/28 14:33 2740 947 A-5 IPA		1 PT01	1.41 2023/03/28	14:3	5. G		Book1.	dsx - Excel			? 🖪	ž -
I PT01 3.72 2023/08/28 14:33 I PT01 1.22 2023/08/28 14:33 I PT01 1.33 2023/08/28 14:33 I PT01 1.33 2023/08/28 14:33 I File name 3/28/2023 129 1 I File name 3/28/2023 14:33 1 I User torque: 3.5 1 1 I User torque: 1 1 1 1 I User torque: 1 1 2 3 4 5 6 I Worker PT01 1 2 3 4 5 6 I Yea/2023 23742 PM 23743 PM 23747 PM<		1 PT01	1.28 2023/03/28	14:37 77	イル タッチ ホーム	挿入 ページレイアウト	数式 デー	9 校開 表;	示 開発			A
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I PT01 1.33 2023/03/28 14:33 I File name 3 C D E F G H 1 File name 3/26/2023 14/29 I		1 PT01	1.22 2023/03/28	14:37								
Image: B C D E F G H 2 Time and de of data 3/28/2023 1429 1		1 PT01	1.33 2023/03/28	14:37								
1 File name 2/28/2023 14/29 1 1 Torque range: ±100 ~ 1000 1 1 1 Super torque: 3.5 1 1 5 Upper torque: 3.5 1 1 6 Control number: 3.5 1 1 7 Uhit (1+m) 1 1 1 8 Uhit (1+m) 1 2 3 6 9 Wrench name: DPW10 1 2 3 1 12 13 12 13 122 133 1 1 12 12 133 1 122 133 1 1 2 4 5 6 1 12 1 1 2 3 1 12 133 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td></td> <td></td> <td>1</td> <td>A</td> <td>В</td> <td>С</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>Н</td>				1	A	В	С	D	E	F	G	Н
1 Imme and age: 3/28/2021 H29 3 Torque range: 1 4 Lower torque: 3.5 5 Server torque: 3.5 6 Jorent torque: 3.5 7 Lohat (N+m) 9 Wrench type: DPW-10 10 Server: 1 11 Wrench type: DPW-10 12 Name 122 13 Worker 1 14 More torque: 1 15 1 1 1 14 128 4 5 15 1 1 1 2 16 3/28/2023 23742 PM 23745 PM 23749 PM 17 1 1 1 1 1 17 1 1 1 1 1 1 18 Iname 1 1 1 1 1 1 1 1 1 1 <td></td> <td></td> <td></td> <td>1</td> <td>File name</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1	File name							
4 Lower torque: 1 4 Lower torque: 35 6 Control number: 5 7 0 1 10 Sige 1 1 10 Serial number: 0 10 Serial number: 0 10 Serial number: 0 11 1 2 10 Serial number: 0 11 1 2 12 Name: PT01 13 Worker: 1 14 PT01 1 2 16 3/28/2023 23742 FM 23745 FM 17 1 12 3 4 16 3/28/2023 23742 FM 23745 FM 17 1 1 2 3 16 3/28/2023 141 12 3 17 1 1 2 1 1 18 1 1 1 1				2	Torque range:	+1.00 ~ 10.00						
5 Upger torque: 3.5				4	Lower torque:	1						
6 Control number: 9 0 bit: (Nrm) 1 <td></td> <td></td> <td></td> <td>5</td> <td>Upper torque:</td> <td>3.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				5	Upper torque:	3.5						
0 0				6	Control number:	(Nam)						
9 Wrench mate: DPW10 10 5 serial number: 4061803-2002R 11 Wrench type: DPW-10 13 Worker: 1 14 PT01 1 2 3 4 5 6 15 135 1.41 1.28 372 1.22 1.33 16 3/28/2023 2.3742 PM 2.3745 PM 2.3747 PM 2.3749 PM 2.3745 PM 17 1 1 2 3 4 5 6 19 File name: 1.00 ~ 1000 1.0				8	Unit code:	(N-m)						
10 Serial number: 4061803-2002R 11 Wench type: D/W-10 12 Name PT01 13 Worker PT01 14 PT01 1 2 3 4 5 6 15 0./28/2023 2.3742 PM 2.3745 PM 2.3747 PM 2.3747 PM 2.3747 PM 2.3747 PM 2.3747 PM 2.3747 PM 2.3745 PM 2.3747 PM 2.3745 PM 2.3747 PM 2.3745 PM		-		9	Wrench name:	DPW10						
11 Wrench type: DPW-10 12 Name: PT01 13 Worter 1 14 PT01 1 2 15 13 141 128 372 16 3/28/2023 23742 PM 23745 PM 23749 PM 17 18 141 128 374 18 Imme: 10 100 122 133 17 17 16 3/28/2023 142 23749 PM 23756 PM 17 17 16 3/28/2023 1429 122 133 18 Imme and date of data 3/28/2023 1429 141 122 122 19 File name: 100 ~ 1000 12 12 12 12 12 10 former inque: 2 100 ~ 1000 12				10	Serial number:	4061803-2002R						
12 Name: P101 13 Morear 1 2 3 4 5 6 14 P101 135 141 128 372 122 133 14 P101 135 141 128 372 122 133 15 3/28/2023 23742 PM 23743 PM 23745 PM 23747 PM 23749 PM 23756 PM 18 Immediate of data 3/28/2023 1429 Immediate <				11	Wrench type:	DPW-10						
14 PT01 1 2 3 4 5 6 15 135 141 128 327 122 133 16 3/28/2023 23742 PM 23745 PM 23747 PM 23749 PM 23756 PM 17 18 19 19 10 100				12	Name: Worker	PTUT						
15 1.35 1.31 1.26 3.72 1.22 1.33 16 3/26/2023 2.37.42 PM 2.37.45 PM				14	PT01	1	2	3	4	5	6	
16 3/28/2023 2.3742 PM 2.3745 PM <				15		1.35	1.41	1 28	3 72	1 2 2	1.33	
16 16 19 File name 19 File name 20 Time and date of data 21 Forque rings: 21 Forque rings: 22 Control forque: 23 Control forque: 24 Control forque: 25 Linit code: 26 Linit code: 27 Wrench name: 28 Serial number: 29 Morech name: 20 Serial number: 21 Norkar 22 14 23 147 24 Serial number: 29 Norkar 20 1 21 Serial number: 23 147 24 23802 FM 25 Serial number:				16	3/28/20	23 2.37.42 PM	2:37:43 PM	2:37:45 PM 2	2:37:47 PM	2:37:49 PM	2.37.56 PM	
19 File name 3/28/2021 14/29 20 Time and date of date 3/28/2021 14/29 21 Torque range: ±100 ~~ 10.00 22 Lower torque: 1.2 23 Lower torque: 2 24 Control number: 4 25 Lower torque: 2 24 Control number: 4 25 Unit cofe: 26 Unit cofe: 27 Wrench name: DPW10 28 Serial number: 4051803-2002R 27 Worker 3 30 Name: PT02 32 PT02 1 2 3 4 33 3/28/2023 2.800 PM 2.800 PM 2.800 PM 2.800 PM												
20 Time and date of data 3/28/2023 1429				1/								
21. Torque range: ±100 ~> 1000 22. Lower torque: 12 23. Upper torque: 2 24. Control number: 4 25. Unit: (N*m) 26. Unit: (N*m) 27. Wrench name: DPW10 28. Wrench name: DPW10 29. Wrench name: DPW10 20. Wrench name: DPW10 21. Wrench name: DPW10 22. Wrench name: DPW10 23. Wrench name: DPW10 24. 3.24/2023 2.800 PM 2.801 PM 2.802 PM 235. 0.25 Mrench name: DPM10 2.800 PM 235. 0.25 Mrench name: DPM10 2.800 PM <td></td> <td></td> <td></td> <td>17 18 19</td> <td>File name:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				17 18 19	File name:							
22 Lower torque: 12 23 Upper torque: 2 24 Control number: 4 25 Unit (N*m) 2 26 Unit code: 2 27 Wrench name: DPW10 28 Serial number: 4061803-0002R 29 Wrench type: DPW10 30 Name: PT02 31 Worker: 1 2 3 32 PT02 1 2 3 4 33 3/28/2023 2.8800 PM 2.8802 PM 2.3802 PM				17 18 19 20	File name Time and date of da	ata 3/28/2023 14:29						
Apple Model A 24 Outrich number: 4 25 Outrich number: (h*m) 26 Outrich number: DPW10 27 Mersch name: DPW10 28 Serial number: 4051803-0002R 29 Wench type: DPW-10 30 Name: PT02 31 Morkar: 1 2 33 147 13 13 34 3/28/2023 2.8800 FM, 23801 FM, 23802 FM 23802 FM				17 18 19 20 21	File name Time and date of de Torque range:	ata 3/28/2023 14:29 ±1.00 ~ 10.00						
25 Unit (NPm) 26 Unit code: 27 Wrench name: DPW10 28 Serial number 4061903-2002R 29 Wrench type: DPW-10 30 Name: PT02 31 Worker 1 32 PT02 1 33 3/28/2023 2.3800 PM, 23801 PM, 23802 PM 35 5/28/2023 2.3800 PM, 23801 PM, 23802 PM				17 18 19 20 21 22	File name Time and date of di Torque range: Lower torque:	ata 3/28/2023 14:29 ±1.00 ~ 10.00 1.2						
26 Unit code: 27 Wrench name: DPW10 28 Serial number 4051803-6002R 29 Wrench type: DPW-10 30 Name: PT02 31 Workar 1 2 32 PT02 1 2 3 33 3/28/2023 2.3800 PM 23801 PM 1.34 34 3/28/2023 2.3800 PM 23801 PM 23802 FM				17 18 19 20 21 22 23 24	File name Time and date of di Torque range: Lower torque: Upper torque: Control number:	ata 3/28/2023 1429 ±1.00 ~ 10.00 12 2 4						
27 Wrench number 4081803~2002R 28 Serial number 4081803~2002R 29 Wrench type: DFW-10 30 Name: PT02 31 Worker 1 32 PT02 1 33 3/28/2023 2.3800 FM 34 3/28/2023 2.3800 FM 35				17 18 19 20 21 22 23 24 25	File name Time and date of di Torque range: Lower torque: Upper torque: Control number: Unit	ata 3/28/2023 1429 ±1.00 ~ 10.00 1.2 2 4 (N•m)						
29 Serrain Tumber TWA 100 TWA 100 29 Whenh type: DPW-10 30 Name: PT02 31 Worker 1 32 PT02 1 33 3/28/2023 2.8800 PM 23801 PM 34 3/28/2023 2.8800 PM 23801 PM				17 188 19 20 21 22 23 24 25 26	File name Time and date of di Torque range: Lower torque: Upper torque: Control number: Uhit Uhit code:	ata 3/28/2023 1429 ±1.00 ~ 10.00 1.2 2 4 (N*m)						
30 Name, PT02 31 Worker 32 PT02 1 2 3 4 33 3 147 136 139 134 34 3/28/2023 23800 FM 23801 FM 23802 FM 23802 FM				17 188 199 200 211 222 233 244 255 266 277	File name Time and date of di Torque range: Lower torque: Upper torque: Control number: Unit: Unit code: Wrench name: Codi la materia	ata 3/28/2023 1429 ±1.00 ~ 10.00 2 (N*m) DPW10 urb102~0000 p						
31 Worker 32 PT02 1 2 3 4 33 3/28/2023 2.3800 FM 2.3801 FM 2.3802 FM 2.3803 FM 35 5				17 18 19 20 21 22 23 24 25 26 27 28 29	File name: Time and date of di Torque range: Lower torque: Control number: Unit: Unit code: Wrench name: Serial number: Wrench rune:	ata 3/28/2023 1429 ±1.00 ~ 10.00 4 (N·m) DPW10 DPW10 DPW10 DPW10 DPW10						
32 PT02 1 2 3 4 33 3 1.47 1.36 1.39 1.34 34 3./28/2023 2.3800 PM 2.3801 PM 2.3802 PM 2.3803 PM				17 18 19 20 21 22 23 24 25 26 27 28 29 30	File name Time and date of di Torque range: Lower torque: Upper torque: Control number: Unit Unit code: Wirench name: Serial number: Wirench type: Name:	ata 3/28/2023 1429 ±100 ~ 1000 12 2 (N·m) 4061803-2002R DPW10 4061803-2002R DPW20 PT02						
33 1.47 1.36 1.39 1.34 34 3/28/2023 2.3800 PM 2.3801 PM 2.3802 PM 2.3803 PM 35				17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 31	File name File name Torque range: Lower torque: Control number: Unit Unit code: Wrench name: Serial number Wrench type: Name: Worker	ata 3/28/2023 1429 ±100 ~ 1000 12 2 (N*m) DPW10 4061803-2002R DPW-10 PT02						
35 35 2000 FM 2000 FM 2000 FM 2000 FM				17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	File name File name Torque range: Lower torque: Upper torque: Unit Unit code: Wrench name: Serial number: Wrench type: Name: Worker: PT02	ata 3/28/2023 1429 ±100 ~ 10.00 12 2 4 (N*m) DPW10 4061803-2002R DPW-10 PT02 12 4 12 12 12 12 12 12 12 12 12 12	2	8	4			
				17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 32 4	File name Time and date of di Torque range: Lower torque: Uoper torque: Oontrol number: Unit: Ounit: Unit: Odde: Wrench name: Serial number Wrench name: Serial number Wrench name: Serial number Worker PT02 3/28/200	ata 3/28/2023 1429 ±1.00 ~ 10.00 12 2 (N*m) DPW10 4061805-2002R DPW-10 PT02 147 2 2 2800 PM	2 136 23801 PM	3 1.39 2.38.02 PM (2	4 1.34 298.03 EM			

3-2) About Save As

This is a data storage file for Adrec.Net.

Please note that if the data content is changed, it will not be read correctly.

Data-file(.dat)						
DPW10.dat - Notepad				_2		×
$\begin{array}{llllllllllllllllllllllllllllllllllll$						^
4061803-2002R 3/28/2023 2:44:30 PM 0 1,PT01,1,3.5,5, 2,PT02,1.2,2,4,						
1,PT01,1.35,3/28/2023 2:37:42 PM.1, 1,PT01,1.41,3/28/2023 2:37:43 PM.2, 1,PT01,1.83,3/28/2023 2:37:45 PM.3, 1,PT01,3.72,3/28/2023 2:37:47 PM.3, 1,PT01,32,3/28/2023 2:37:47 PM.3, 1,PT01,33,3/28/2023 2:37:56 PM.5, 2,PT02,1.43,3/28/2023 2:38:00 PM.1, 2,PT02,1.39,3/28/2023 2:38:01 PM.2, 2,PT02,1.39,3/28/2023 2:38:01 PM.3, 2,PT02,1.34,3/28/2023 2:38:03 PM.4,	5,1,PT01, 5,2,PT01, 5,3,PT01, 5,5,PT01, 5,6,PT01, 5,6,PT01, 4,7,PT02, 4,9,PT02, 4,9,PT02, 4,10,PT02,					
						2
	Ln 1, Col 1	100%	Windows (CRLF)	ANS	ł	

(1) Open the [Wrench Detail] tab, and while the measured values are being output, click the [Save As] icon.

Massurad	value V	rench detail	Data	output	oper	ation	Connecting wrench	DP₩
File nam	0			Wren	ch name	DPW10		
Data Imp	ort date	3/28/2023 2:29	:17 PM	Unit	code	Dinito		_
Vrench t	ype	10		Toro	ue range	±1.00 ~	- 10.00	
Unit		N•n		Mfg	No.	4061803	- 2002R	Display clea
Address	Name	Lover	torque U	pper torque	Control	number Vo:	ker	
	D.T.O.L							
1	P101			3.5		5		
2	PT02	1	.2	3.5 2		5 4		
2	PT01 PT02	1	.2	3.5		5 4		
Address	PT01 PT02	Torque	.2	3.5 2 n date	Tig 0	5 4		
Address	Nane PT01 Nane PT01 PT01	Torque	0peratio 2023/03/2 2023/03/2	3.5 2 n date 8 14:37:42	Tig 0	5 4 0ntr Tot 5	2	
1 2 Address 1 1	P101 PT02 PT02 PT01 PT01 PT01 PT01	Torque 1.35 1.41	0peratio 2023/03/2 2023/03/2 2023/03/2 2023/03/2	3.5 2 12 14:37:42 14:37:42 14:37:43 14:37:45	Tig 0	5 4 ontr Tot 5 5	111 1 2 3	
Address 1 1 1	P101 PT02 PT02 PT01 PT01 PT01 PT01 PT01	Torque	00eration 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2	3.5 2 2 8 14:37:42 8 14:37:43 8 14:37:43 8 14:37:47	Tig Ω 2 3 3 3	5 4 5 5 5 5	1 2 3 4	
Address I I I I I I I I I I I I I I I I I I	Name PT01 PT02	Torque 1.35 1.41 1.22 3.72 1.22	00erat ior 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2	3.5 2 2 8 14:37:42 8 14:37:43 8 14:37:45 8 14:37:45 8 14:37:47	Tig Q 1 2 3 3 3 4	5 4 5 5 5 5 5	1 2 3 4 5	

(2) You will be asked where to save the data file. Please select the destination and give it a name of your choice.

Please select a destination for the file.			х	
← → ↑	ð	, Search Desktop		
Organize - New folder		88 • (0	
OneDrive - Person				5
This PC				
3D Objects				
Desktop				
				 data-file(.dat
File name: DPW10			~	
Save as type: dat files(*.dat)			~	
A Hide Folders		Save Cancel		

(3) The saved data file can be displayed on the output operation screen.Press the "Open" icon with the "Wrench Detail" tab displayed on the output operation screen.Since the contents of the data file cannot be written to the torque wrench, connection of the torque wrench is not required.

_	🚺 Torque Control System	[Adrec.NET] USER		- 🗆 X
	File Setting Display	Communication Help		
	📂 🖬 🐑 📓	📖 🦑 🔒 🥪 🖊 🛧 🗡	WirelessID: -	
		Data output oper	ration Connecting	
Onen	Measured value Wren	ch detail		
Open	File name	Wrench name		
	Data Import date	Unit code		
	Vrench type	Torque range		
	Unit	Mfg No.	-	Display clear
	Address Name	Lower torque Upper torque Control	number Vorker	
	Address Name	Torque Operation date Tightened	i number Control number 1	otal number

The data file is called.

[EXCEL data transfer] is also possible from here.

easure	d value W	rench detail	Data	outp	out oper	ation	Connecting wrench			
ile na	ne	C:¥Users¥kaił	atsu¥Deskt	op¥DPW1	¥rench name	DPW10				
ata Im	port date	3/28/2023 2:5	2:43 PM		Unit code					
ench	type	10			Torque range	±1.00 ~	- 10.00			
nit		N · n			Mfg No.	4061803	- 2002R	Displ	lay cl	e
ddress	s Name	Lower	torque IU	pper to	rque Control r	umber Work	er			1
	PT01		1	3.5		5				
	PT02		1.2	2		4				
	Lucos									
ddres	s Name	Torque	Operatio	n-date	Tightened	number Con	trol number T	íotal numbe	F.	
ldres	Name PT01 PT01	Torque 1.3	Operatio	n⊳date 28 14:37	Tightened	number Con	trol number T	fotal numbe	r 1 2	
ddres	s Name PT01 PT01 PT01	Torque 1.3 1.4	Operatio 5 2023/03/ 1 2023/03/ 8 2023/03/	n-date 28 14:37 28 14:37 28 14:37	Tightened :42 :43	nutiber Cor	itrol number T 5 5 5	fotal numbe	r 1 2	
ddres	s Name PT01 PT01 PT01 PT01	Torque 1.3 1.4 1.2 3.7	0peratio 2023/03/3 2023/03/3 2023/03/3 2023/03/3	n date 28 14:37 28 14:37 28 14:37 28 14:37 28 14:37	Tightened :42 :43 :45 :47	number Cor 1 2 3 3	troi number T 5 5 5 5 5	iotal numbe	r 1 2 3	
ddres	 Name PT01 PT01 PT01 PT01 PT01 PT01 	Torque 1.3 1.4 1.2 3.7 1.2	Operatio 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2 2023/03/2	n date 28 14:37 28 14:37 28 14:37 28 14:37 28 14:37 28 14:37	Tightened 142 143 145 147 149	number Cor 1 2 3 3 4	trol number T 5 5 5 5 5 5	iotal numbe	r 1 2 3 4 5	
Address	s Name PT01 PT01 PT01 PT01 PT01	Terque 1.3 1.4 1.2 8.7	Operatio 2023/03/3 2023/03/3 2023/03/3 2023/03/3 2023/03/3 2023/03/3	n date 28 14:37 28 14:37 28 14:37 28 14:37 28 14:37	Tightened 142 143 145 147	number Con 1 2 3 3	trol number T 5 5 5 5 5 5	fotal numbe	r 1 2 3 4	

- 4) Optional functions
 - 4-1) Changing the display time of measured values

You can change the display time of the measured values in the [Measured Value] tab.



(1) Open the options screen from the [Options Settings] icon.



File Setting Display Communication Help	
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Data display time 1sec ~ File creation setting Auto save Save destination Optional input function Optional input Optional input note	Excel transfer setting Transfer in the O Transfer in t Excel format O CSV format refer
Data display time 1sec ~ File creation setting Auto save Save destination Optional input function Optional input Optional input name note	Excel transfer setting Transfer in the O Transfer in t Excel format O CSV format refe

(2) Change "Data displat time" and press the OK button.

Specifiable range: 1 to 10 seconds

File creation setting Auto save Save destination r Optional input function	
Save destination r	
Optional input function	efer
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4-2) Switching export format

Switches the output format of [EXCEL Data Export].

(1) Open the options screen from the [Options Setting] icon.

	Torque Control System [Adrec.NET] USER -
	File Setting Display Communication Help
	🚰 🔚 🖭 🔚 📲 & 🌡 🛹 🕪 🖡 🏠 Conecting WirelessID: 1 🔹
Option Setting	Setting operation Connecting DPW
	Option
	Setting operation
	Maximum torque Settable X Snug torque Settable X
	Up to 100 % of maximum torque from 5 % of maximum torque
	-Setting operation
	Excel transfer setting
	Data display time 1sec Transfer in the CSV format
	File creation setting
	∏ âuto save
	Save destination refer
	Optional input function
	🗌 Optional input
	Optional input name note
	OK Cance I

(2) Change [Excel Transfer Setting] and press the OK button.

lsec	Transfer in the Transfer in t
	- Excel format
ting	
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	ting

4-3) Auto save function

This function automatically saves the results of tightening.

Only data that has been tightened with [Adrec.Net] open will be saved.

Both wired and wireless can be used.



The output is in CSV file format. This file cannot be opened in [Adrec.Net].

The output is as follows:

Each time a tightening is performed, it is added to the last line.

For angle wrench, double-tightening prevention, and screw tightening inspection,

peak angle values are also output.

20230328_1.csv - Notepad			2	- 0	×
Ele Edit Farmat View Help Wrench type, Serial number, Unit, Name, Lower torque, Upper torque, Control number, Torque, Operation date, Tight, DPW-10, 40618032002R, Nrm, PT03, 1.6.3, 5.3, 2.00, 3/28/2023 2:54:32 PM, 1.3, 11, DPW-10, 40618032002R, Nrm, PT03, 1.6.3, 5.3, 2.04, 3/28/2023 2:54:31 PM, 2.3, 12, DPW-10, 40618032002R, Nrm, PT03, 1.6.3, 5.3, 2.04, 3/28/2023 2:54:31 PM, 3.3, 13, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 2.29, 3/28/2023 2:54:38 PM, 3.3, 13, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 98, 3/28/2023 2:54:38 PM, 3.5, 16, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 20, 3/28/2023 2:54:34 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 5.5, 5.8, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 52, 20, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 52, 20, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 52, 20, 3/28/2023 2:54:44 PM, 4.5, 17, DPW-10, 40618032002R, Nrm, PT01, 1.3, 5.5, 5.2, 0.4, 52, 4.5, 4.5, 4.5, 4.5, 4.5, 4.5, 4.5, 4.5	ened number,Contro	l number,Total	number	,Remark	
DPW-10,40618032002R.N.m.PT02,1.2.2.4,1.72.3/28/2023 2:54:50 PM,2,4.20, DPW-10,40618032002R.N.m.PT02,1.2.2.4,1.53,3/28/2023 2:54:51 PM,3,4,21,		100% Windows (2017)	ANICI	2

A CSV file is created for each tightening date and wrench type.

The file name is as follows:

Tightening date(YYYYYMMDD)_□□□_Wrench ID.csv

 $*\Box$ \Box \Box will be changed depending on the type of wrench.

Torque wrench	nothing
Angle wrench	angle
Prevention of	double-tightening
double-tightening	
Screw tightening	Screw inspection
inspection	

Example: 20230116_1.csv 20230116_angle_2.csv (1) Open the options screen from the [Options Setting] icon.

	Torque Control System [Adrec.NET] USER -
	File Setting Display Communication Help
- P	Cotting operation Connecting DOW
Option Setting	Setting operation wrench urm
	Option
	-Setting operation
	Maximum torque Settable % Snug torque Settable %
	Up to 100 % of maximum torque from 5 % of maximum torque
	Setting operation
	Excel transfer setting
	Data display time 1sec • Transfer in the CSV format
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	-Optional input function
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	Optional input name note
	OK Cancel

(2) Check the "Auto Save" checkbox, specify the destination folder, and press the OK button.

File creation setting ☑ Auto save Save destination C:¥Users¥kaihatsu¥Desktop¥savefile Optional input function	O Transfer in the Transfer in the Excel format
Save destination C:¥Users¥kaihatsu¥Desktop¥savefile refer	
Optional input function	Desktop¥savefile refer
D Orbienst insut	
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- (3)When tightening is performed on the output operation screen,
 - a CSV file is output to the specified location.

File Home Share	View			~ (
← → * ↑ 📕 « De	sktop → savefile 🗸 🗸 🗸	Ğ	, ○ Search savefile	
^	Name			Date modified
Quick access	4 20230328_1.csv			3/28/2023 2:54 PM
 This PC 3D Objects 				
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> 🐥 Downloads				
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1 item 1 item selected 9	50 bytes			Bas I



4-4) Optional input function

This function allows you to link any wording to the closing statement data. When the optional entry function is enabled, a text entry field appears and an item is added at the end of the statement section.

When tightening is performed after entering the text input column, the text that was entered in the tightening result is set.



Option Set

(1) Open the options screen from the [Options Setting] icon.

	Z Torque Control System [Adrec.NET] USER -
	File Setting Display Communication Help
	📸 🔜 🐑 🔚 🚛 🧬 ዿ 🥪 🦊 🕈 🗙 Conecting WirelessID: 1 🔹
ting	Setting operation Connecting DPW
	Option
	-Setting operation
	Waximum torque Settable % Snug torque Settable %
	Up to 100 % of maximum torque from 5 % of maximum torque
	Setting operation
	Data display time 1sec Transfer in the CSV format Image: Strange strain the CSV format CSV format
	File creation setting
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	Save destination refer
	Optional input function
	🗋 Optional input
	Optional input name note
	OK Cance I

(2) Check the "Optional input" check box and press the OK button.

Optional input name can be chaneged freely.

The optional input name will be used as the name of the item in the text input field.

Data display time Isec 🗸 🗸	Excel transfer setting Transfer in the Orransfer in the CSV format		
File creation setting		-	
_ Auto save			
Save destination	refer		
Optional input function			
Optional input name S/N			
Data out	put operation	Connecting DPW	
	S/N	12345	

Note

Adrec. Net is always active when using the optional input function.
 It is recommended that this be performed independently,
 as it will be difficult to work in parallel with other tasks.

The optional input function does not have a save function.
 Please note that the following operations will clear the input value.
 When turning on/off the optional input function / when reconnecting the torque wrench / when reading output data / when clearing the table

4-5 Maintenance Operation Screen

Here you can change the basic settings of the torque wrench.

The maintenance operation screen is always operated via a wired connection.

1) Screen Item Description







Displayed only for HTW series

Mfg No.	The serial number of the torque wrench is displayed.
Software version	The software version of the torque wrench itself is displayed.
Wrench Name	A unique name can be set. (8 single-byte alphanumeric characters)
Wrench type	The wrench type of the torque wrench is displayed.
Unit	The unit of the torque wrench is displayed.
Verify mode	Used when measuring below the lower torque limit.
	Refer to: "4-6 Other Functions 1) About Inspection Mode".
Wireless Setting	
Torque Wrench	It is a Torque wrench.
Wireless CH	The Wireless channel of the torque wrench is displayed.
Wireless ID	The Wireless ID (wrench ID) of the torque wrench is displayed.
Receiver	It is a wireless receiver.
Wireless CH	The receiver's wireless channel is displayed.
	*Some receivers cannot be displayed.
Calibration Informatio	on
Span coefficient	
Initial value	These are parameters related to calibration.
	4

Product Information

Torque adjustment

Number managemer	t function This is a setting related to the number of control cycles.					
Count display	Sets the method for counting the number of administrations.					
method	In case of subtraction					
	In case of addition					
Over torque alarm	Sets the buzzer sound and vibration motor behavior when the					
fuction	measured torque exceeds the [upper torque limit] (overtorque).					
	Default valueOperates for a fixed time (2 seconds).					
	Continue Operates until the load is released.					
	Hold Operates until canceled by manual operation.					
Over torque counting	Sets the counting method for the control function when					
fuction	the measured torque exceeds the [Upper Torque Limit].					
	Do not countIf the upper torque limit is exceeded,					
	the number of management times will not be counted.					
	0 lower limit upper limit					
	invalid range number count range invalid range					
	The number of times it will record when overtorque occurs,					
	but the number of times will not change.					
	Address Name Torque Operation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.32 2023/03/29 16:03:56 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.60 2023/03/29 16:04:02 2 5 0 1 PT01 3.60 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:06 2 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0					
	Address Name Torque Operation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.32 2023/03/29 16:03:56 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.60 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:00 2 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0					
	Address Name Torque Operation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.24 2023/03/29 16:03:56 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.60 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:00 2 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0					
	Address Name Torque Overation date Tightened Number Control number Total number 1 PT01 1.24 2023/03/29 18:03:56 1 5 0 1 PT01 1.32 2023/03/29 18:03:56 2 5 0 1 PT01 3.64 2023/03/29 18:04:00 2 5 0 1 PT01 3.64 2023/03/29 16:04:02 2 5 0 1 PT01 3.72 2023/03/29 16:04:02 2 5 0 1 PT01 3.72 2023/03/29 18:04:09 3 5 0 1 PT01 1.34 2023/03/29 18:04:09 3 5 0					
	Address Name Torque Overation date Tightened Number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.32 2023/03/29 16:03:56 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:09 3 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0					
	Address Name Torque Overation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 18:03:56 1 5 0 1 PT01 1.32 2023/03/29 18:03:56 2 5 0 1 PT01 3.64 2023/03/29 18:04:00 2 5 0 1 PT01 1.34 2023/03/29 18:04:09 3 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 0 lower limit upper limit invalid range number count range number count range 1 1 1 1					
	Iddress Name Torque Overation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.24 2023/03/29 16:03:56 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0 1 PT01 1.34 2023/03/29 16:04:09 3 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 1 invalid range number count range The number of times is also counted during overtorque. The number of times is also counted during overtorque.					
	Image: Torque Operation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 16:03:56 1 5 0 1 PT01 1.32 2023/03/29 16:04:00 2 5 0 1 PT01 3.60 2023/03/29 16:04:00 2 5 0 1 PT01 1.34 2023/03/29 16:04:00 3 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 0 1 <td< td=""></td<>					
	Inderess Name Torque Operation date Tightened number Control number Total number 1 PT01 1.24 2023/03/29 18:03:56 2 5 0 0 1 PT01 3.64 2023/03/29 18:04:00 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 2 5 0 0 1					
Power OFF memory	Address Hase Torque Operation date Tightend number Control number Total number 1 PT01 1.32 2023/03/29 18:03:58 2 5 0 1 PT01 3.64 2023/03/29 18:04:00 2 5 0 1 PT01 3.64 2023/03/29 18:04:00 2 5 0 1 PT01 3.64 2023/03/29 16:04:00 2 5 0 1 PT01 3.72 2023/03/29 16:04:00 2 5 0 1 PT01 1.34 2023/03/29 16:04:00 3 5 0 1 PT01 1.34 2023/03/29 16:04:00 3 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 0 lower limit upper limit invalid range The number of times is also counted during overtorque. Net on the number of times is also counted during overtorque.					
Power OFF memory	Address Name Torque Overation date Tightend number Control number Total number 1 PT01 1.32 2023/03/28 16:03:56 2 5 0 1 PT01 3.64 2023/03/28 16:03:56 2 5 0 1 PT01 3.64 2023/03/28 16:04:00 2 5 0 1 PT01 3.64 2023/03/28 16:04:06 2 5 0 1 PT01 3.64 2023/03/28 16:04:06 2 5 0 1 PT01 1.34 2023/05/28 16:04:08 2 5 0 1 PT01 1.34 2023/05/28 16:04:08 2 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 0 1					
Power OFF memory	Address Name Torque Overation date Tightened number Control number Total number 1 PT01 1.32 2023/03/29 16:03:56 2 5 0 0 1 PT01 3.64 2023/03/29 16:04:02 2 5 0 0 1 PT01 3.64 2023/03/29 16:04:02 2 5 0 0 1 PT01 3.64 2023/03/29 16:04:02 2 5 0 0 0 2 5 0 0 2 5 0 0 0 2 5 0 0 0 2 5 0 0 0 0 2 5 0					
Power OFF memory	Make 1 for que Overation date 1 influend number Control number 1 of a number 1 PT01 1.32 2023/03/29 16:00:56 2 5 0 1 PT01 3.62 2023/03/29 16:00:50 2 5 0 1 PT01 3.62 2023/03/29 16:00:00 2 5 0 1 PT01 3.62 2023/03/29 16:00:00 2 5 0 1 PT01 1.34 2023/03/29 16:00:00 2 5 0 Counting It counts the number of management times even if the upper torque limit is exceeded. 0 10					

■Other Functions							
Tightening direction	Set the direction of torque detection.						
function	Single directionDetected only the set "plus/minus" direction.						
	■For plus setting, only the positive direction is detected.						
	0 lower limit upper limit						
	valid range overtorque						
	CCW, minus CW, plus						
	For minus setting, only the minus direction is detected						
	For minus setting, only the minus direction is detected.						
	upper limit Iower limit 0						
	overtorque valid range						
	CCW, minus CW, plus						
	BidirectionalDetected both right rotation (CW, plus) and						
	left rotation (CCW, minus), regardless of the set direction.						
	upper limit I lower limit 0 Iower limit upper limit						
	overtorque valid range valid range overtorque						
	CCW, minus CW, plus						
Online System	After sending the finalized data, you can set whether to wait for a reply						
Interfacing Functions	from the computer.						
	AloneThe system will not waite for a reply from the PC,						
	so you can immediately move on to the next task.						
	I orque wrenches with wired specifications are set up this setting.						
	Linked The system will be in standby mode until a reply is received						
	The standby state is the state in which the fixed value is blinking)						
	Wireless torque wrench are set un this setting						
	*Not used for wired specifications						
	Send confirmed value						
	Tightening						
	Stand by in a blinking state until a						
	Fixed value received						
	Reply dent lines						
	Return to 0 and move on to the next operation.						

Memory erase after	*Configurable only for the HTW series.
data transmission	Determines whether measurement results stored in internal memory
	with "MEMO mode enabled" are deleted after being read back
	by Adrec. Net, etc.
	Erase Erase internal memory after data transmission.
	Do not eraseAfter sending data, the internal memory is retained
	without erasing.
Indicator buzzer	*Configurable only for the HTW series.
function	Enable or disable the indicator.
Transmission of	Set the function to send a command when the lower or upper limit
measurement arrival	is reached.
status function	EnableSend command.
	DisableNo command is sent.
Display warning	Set the start-up time of the peak torque valuedisplay, buzzer sound, and
sound operation time	vibration motor.
	Settable time: 0.3 to 1.2 seconds (default setting: 0.5 seconds)
Torque buzzer sound	The buzzer sound when the lower or upper torque limit
	is reached can be selected.
	Possible values: Pattern 0 (high tone) to Pattern 10 (low tone)
	(Default value: Lower limit = pattern 8, Upper limit = pattern 2)
Encryption function	Wireless communication with the torque wrench is performed
	with encryption.
	When communication with the torque wrench cannot be established
	due to a communication failure caused by communication
	with the torque wrench.
	*Do not use the encryption function normally.
	See also: [4-6 Other functions 2) Encryption function].

2) How to check maintenance items

The basic settings of the torque wrench can be read and confirmed.

The maintenance operation screen is always operated via a wired connection.

(1) Connect a torque wrench to a PC with a USB cable.



(2) Connect the torque wrench from "4-2 Connection of Torque Wrench".



(3) Delete the records in the torque wrench from the [Memory Data Erase] icon.

*Deleted data will not be restored. Please save the necessary data before doing so.



(4) Read the settings of the torque wrench from the [Read Data] icon.



- 3) How to rewrite maintenance items
 - (1) Perform "2) How to check maintenance items" to display the basic settings
 - of the torque wrench.



(2) Change the contents to be written to the torque wrench by operating the screen.



(3) Click the [Write Data] icon to write the settings to the torque wrench.



Note

When maintenance operation is performed, the torque wrench enters the maintenance mode, and the display changes to "CAL2".



To return to the measurement mode (0 display), turn the power back on or read data from the [Setting Operation Screen].

3-1) How to change the wireless channel

Change the wireless channel of the wireless receiver.

To change the channel and ID of the torque wrench main unit, perform the operations described in "3) How to rewrite maintenance items".

(1) Connect the wireless receiver to the PC.



(2) Click the [Communication Settings] icon to open the communication settings screen, and set the [Wireless Port No.].

Communication Settings	Torque Control System (Adrec.NET) USER File Setting Display Communication He	Nance operation
	Communication setting Port Settings Wireline Port No. Wireless Port No. COM4	Number of vrenches Number of 1 vrenches 1 vertine
	Encrypted connection O encrypt Not encrypt	OK Cance I

(3) Press the Read button under [Parent Unit] in the upper right corner of the screen to read the current settings.

♥ireless setti	ng			
Torque Wrench	-	Receiver	g	1.
Wireless CH	11 ~	Wireless CH	11 ~	\leftarrow The current settings are
Wireless ID	1	Reading	Writing	

(4) Change the Wireless CH and write the changes to the wireless receiver with the Writing button. If it is successful, a completion message is displayed.

11 ~	Wireless CH	12 ~	←Change CH
1	Reading	Writing	Ŭ
een changed .			
	1 >	1 Reading	1 Reading Writing

Note

Wireless receivers that can read out (3) are those with an "R" in the serial number. If reading cannot be performed, a "connection failure" message is output at the lower left of the screen.

Connecting receiver.

Connect failure .

Read cannot be performed, but (4) can be written, it is possible to change the CH.

4-6 Other functions

1) About the inspection mode

Normally, the measurement is above the lower torque limit, but the inspection mode enables measurement below the lower torque limit.

The inspection mode is set from the [Maintenance Operation Screen]. For details on how to change the maintenance items, please refer to 4-5 Maintenance Operation Screen 3) How to rewrite maintenance items.

Torque Control System	[Adrec.NET] USER		- 0
Setting Display	Communication Help		p
	1 🔜 🖉 🔒 🛹 🕪 🖡	1 1 Conecting WirelessID:	
	Maintenand	e operation	Connecting wrench
		(i) Opera proce	ation 🛕 Precautio
Product infoma	tion	Wireless setting	
Mfg No.	4061803-2002R	Torque Wrench	Receiver
Software vers	ion Ver2.80(0)	Wireless CH 11 ~	Wireless CH 🗸
		Wireless ID 1	Reading Writing
∛rench name	DPW10		
Verify mode	DPW-10 v		
Unit	N-m		
Verify mode	OFF ~	Calibration infomation	
		Span coefficient 1434 ad	orque djustment 0

The measurable range is 10 to 90% of the [lower torque limit]. For example, if the lower torque limit = 1.0 Nm and inspection mode = 10%, the definite value will be recorded from "0.1 Nm", 10% of 1.0 Nm.

Torque values less than the lower torque limit will have a yellow background.

🗾 Torque Control System [Adrec.NET] USER — 🗆 🗙	Address	Name	Torque	Operation date	Tightened number [Control	number IT	otal number
File Setting Display Communication Help	1	PT01	0.27	2023/03/29 15:54:14	0	0	0
📷 🖬 🎬 🗐 🦑 🖳 🛷 🦀 🛶 🚧 🖡 🏠 📩 Danacting WirelessD:	1	PT01	0.36	2023/03/29 15:54:17	0	0	0
Data output operation Connecting DPW	1	PT01	0.43	2023/03/29 15:54:19	0	0	0
Measured value Vrench detail	1	PT01	0.48	2023/03/29 15:54:20	0	0	0
Wronch type 10	1	PT01	0.59	2023/03/29 15:54:22	0	0	0
lewer targue 1 wrench	1	PT01	0.56	2023/03/29 15:54:25	0	0	0
Illipper torque 3.5							
Central number 0 / 0							
Total number 0							
Operation date 3/29/2023 3:54:25 P							
Operation date 3/23/2023 3:34:23 1							
N·m							
No memory data							

2) Encryption function

Wireless communication with the torque wrench will be performed with encryption. This function is used when communication with the torque wrench cannot be established due to a communication failure caused by a busy line, etc. *Do not use the encryption function normally.

For encryption, the encryption settings of the torque wrench and [Adrec.Net] must be matched.



Communication is not possible with only one of the encryption settings.



When encrypting, encrypt in the order of Torque Wrench, [Adrec. Net].

Torque wrench encryption settings are made on the [Maintenance Operation Screen].

- (1) Perform "4-5 Maintenance Operation Screen 2) How to check maintenance items"
 - to display the basic settings of the torque wrench.



(2) Select "Valid" in "Encryption function" and write the data to the torque wrench in "Write data". Adrec.Net cannot be used because the torque wrench is set to encrypted settings at the time of writing.



(3) Next, set [Adrec.Net] to the encryption setting.

[Click the "Communication Setting" icon to open the communication settings screen, and select "encrypt" for Encrypted connection.

<u> </u>	Communication setting			
≱ ≡∥	Port Settings		Number of wrenches	
	Wireline Port No.	COM2 ~	Number of wrenches	1 ~
ommunication	Wireless Port No.	~		Wireless ID
Settings	-Encrypted conner	rtion		setting
	 encrypt 	○ Not encrypt	OK	Cance I

If encryption is set, a key symbol is displayed.

🚺 To	rque Cont	rol System [Adrec.NET] USER	-
File	Setting	Display	Communication Help	
0		1	🔳 🦑 🔒 🥪 🗣 🛉 🕈 🗙 Conacting 📍 VirelessID:	•



Torque wrench may be set to encryption, but it is not visually apparent. If you are not sure whether encryption is set or not, you can force that setting.

Open the maintenance operation screen, and after wired connection, press the button you want to set. It can be set without data loading.



5 Q&A

Torque wrench connection related	
I don't know the port number	It can be checked from "Ports (COM and LPT)"
(COM number).	in Device Manager. Refer to: [4-2
	Connecting a torque wrench 1) Setting the port number].
COM port is not found.	You may not have installed a USB driver.
Torque wrench is not recognized.	Install the USB driver.
	Refer to: [2-2 Software Installation
	1) USB driver installation]
No wired/wireless connection	Please review the following information.
Failure to connect	Torque wrench may not be turned on.
	COM port number may not be correct.
	• Torque wrench or receiver may not be connected to a PC.
	• It may be connecting with other software such as a monitor.
Selecting the Wireless ID does not	Please review the following information.
activate the data readout	Torque wrench may not be turned on.
(blue arrow) icon.	Wirelss ID mey not be correct.
	Torque wrench and receiver channels may not match.
	• Torque wrench and PC may be wired together with a cable.
How do I check the Wireless CH	It can be checked by operating a button on the main body.
and Wireless ID?	HTWPress the [SET] button.
	DPWPress ◇Mark button (long press depending on version)
	CHWireless CD, dWireless ID
	In Adrec.Net, it can be checked on [Maintenance Settings Screen].
Wireless CH and ID are matched,	This occurs when the writing of the channel or wireless ID is
but the connetcion has failed.	not working. Set a different channel and wireless ID once,
	and then change back to the original wireless ID.
	<operation procedure=""></operation>
	(1) On the "Maintenance Operation Screen",
	Wired Connection of the torque wrench and "Read data". Communication Wired Connection Connection
	(2) Set the child unit [wireless CH][wireless ID]
	to a completely different number and [write data].
	(3) Return the child unit [wireless CH][wireless ID]
	to the CH and ID you want to set, and then [Write Data].

Torque wrench operation related		
Torque wrench is not set to 0	This problem occurs when the power is turned on with a	
when turned on.	load applied. When turning on the power, place it	
	on a desk and turn on the power with no load on it.	
	*Please be careful with small sizes such as HTWS.	
Torque remains at peak hold	Two patterns are possible.	
and does not return to 0.	"AUTO mode" is set to "Confirm".	
	In this case, button operation of the wrench body is	
	required to return to 0.	
	When set to "Auto", it will automatically return to 0.	
	Reference: [4-3 About the setting operation screen].	
	 The wrench was turned on with a load applied to it. 	
	This is especially likely to occur with small sizes	
	such as HTWS. Please turn on the power supply when	
	there is no load on it, such as by placing it on a desk.	
Torque remains at peak hold,	This occurs when the wireless receiver is not capable of	
torque does not return to 0.	receiving the data in a wireless connection.	
Tightening value is blinking.	In the case of wireless, the system will be in a state of	
	receiving confirmation (waiting for a reply from the PC)	
	in order to prevent leakage of reception.	
	There are three ways to cancel.	
	\cdot Connect the receiver to a PC and start Adrec.Net $ ightarrow$	
	wireless connection to receive the tightening value.	
	 The blink state is released by operating the button. 	
	*In this case, tightening value is not received by Adrec.	
	 Set the "Waiting for reply" status to be disabled in the 	
	first place.Set [Online System Linkage Function] to	
	Standalone in the [Maintenance Operation Screen] to	
	to prevent waiting for replies.	
	This will prevent the system from waiting for a reply.	
	*In this case, receipt of tightening values cannot be	
	guaranteed.	
Torque does not go above 0	This occurs when the set value is outside the	
when force is applied.	corresponding torque range. For example, for DPW10,	
	12Nm over the configurable 1-10Nm, and so on.	
	This is likely to occur, for example, when configured	
	from a proprietary system in a class library.	

I want to use a wireless torque	In the case of wireless specifications, the "Online system
wrench with wired specifications,	linkage function" is set to "Linkage" as the default setting
but it blinks everytime I tighten it.	at the time of shipment, so if the tightening value cannot
	be received by the PC side, the machine enters a state of
	waiting for a reply (the tightening value blinks).
	To use it as if it were a wired specification,
	change the following settings.
	 In the "Maintenance Settings" screen, change "Online
	System Linkage" to "Standalone"
	(AloneNo waiting for reply from PC)
	 Change "MEMO Mode" to "Enable" on the "Setup
	Operation Screen"
"TErr" is displayed and the	This problem occurs when the power is turned on when
power turns off.	the battery is nearly empty. Please recharge or replace
	the battery. Once "TErr" occurs, the calendar setting
	held in the torque wrench is also erased and the date and
	time are initialized. Please set the date.
"CAL2" is displayed.	"CAL2" is in the maintenance mode and is displayed
	when data readout is performed on the maintenance
	operation screen. To return to the normal measurement
	mode(0 displayed), perform data readout on the setting
	operation screen or turn the power back on.
"Err2" is displayed.	This message is displayed when a signal cannot be
	obtained from the sensor that measures the torque value.
	Please contact us for repair.
What time is used as the definite	The torque wrench body has a date/time timer,
date and time of tightening?	and the date/time when the timer is used is the fixed
	date/time.The timer of the main unit that has a
	completely different date and time is not set correctly.
	Please reset the date and time on the body.
	See also: [QA] How do I change the date on a torque wrench?
The date and time of confirmation	The date on the torque wrench body is not set correctly.
are not correct.	After the battery runs out, the date will be reset if it is
It's a completely different date.	not operated for a while.
	In addition, long-term use of the system may cause a
	slight time discrepancy. Please reset the date.
	See also: [QA] How do I change the date on a torque wrench?

Related to setting changes			
I don't know how to change	Change from the "Maintenance Setup Screen".		
the Wireless CH or wireless ID.	The "Maintenance Setup Screen" can only be changed		
	via a wired connection.		
	Reference: [4-5 About Maintenance Operation Screen		
	3-1) How to change the wireless channel]		
How do I change the date	Change from the "Setup Operation Screen".		
on a torque wrench?	Read data on the "Setting Operation Screen,"		
	set "Date/Time Setting" on the lower left of the screen to Valid,		
	and then write data.		
	Read Data Date setting O Invalid © Valid Data Write Data		
	Write the date and time on the computer to the torque wrench.		
	You cannot change the date and time to anything other than		
	the date and time of your computer.		
	If you must change the date to a specific date, please change		
	the date and time on your computer, then start Adrec.Net,		
	and write to TorqueWrench.		
How do you switch patterns?	There are two ways to do this.		
	1) How to set the destination pattern No.		
	and automatically switch to the next pattern		
	No.Lower torqueUpper torqueControl numberNext PT No.Memo modePT0113.542InvalidPT021.84.231Invalid		
	 2) How to switch by operation of the torque wrench itself Operation methods differ between HTW and DPW. <htw></htw> After pressing [SET] + [SHIFT] simultaneously, press [S/C] to switch PT and [SET] to confirm. <dpw></dpw> After pressing [Power]+[◇] simultaneously, use [◇] to switch PT and [Power] to confirm. 		
