

KEW Smart for KEW3552BT


Instruction manual

How to connect with KEW3552BT	
Connection and Disconnection	
Connect KEW 3552 BT with your PC:	P.2
Disconnection	P.6
Data saving	
How to save the measured data	P.8
Items shown in the Saved data list	P.10
Auto-save	P.11
Creating/ editing files	
Menu	P.13
Creating a new file	P.15
To show another file	P.18
Editing the saved data	
Add/ alter file descriptions	P.19
Edit comments on records	P.20
Deleting the saved data	
Delete one record.	P.22
Select and delete multiple records	P.24
Delete all records	P.27
Management of KEW 3552 BT internal memory	
Download all data from KEW 3552 BT	P.28
Delete all the KEW 3552 BT internal data	P.29
Other features	
Show the saved data	P.31
Open a map based on the location info.	P.32
Display layout change	P.33
Link with other apps	P.35
File transfer to PC	
On Android device:	P.36
On iOS device:	P.37
Troubleshooting	
	P.38

Connection and Disconnection

Operating environment

System requirements:

- OS
 - Android "5.0" to "7.0" 
 - iOS "10.0.0" or later iOS
- Devices:
 - Smartphone
 - Tablet
- Required functions/ authorizations:
 - Bluetooth LE
 - Location services
 - File writing/ reading

The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.

Android is a trademark or registered trademark of Google Inc.

iOS is a trademark or registered trademark of Cisco in the U.S. and other countries.

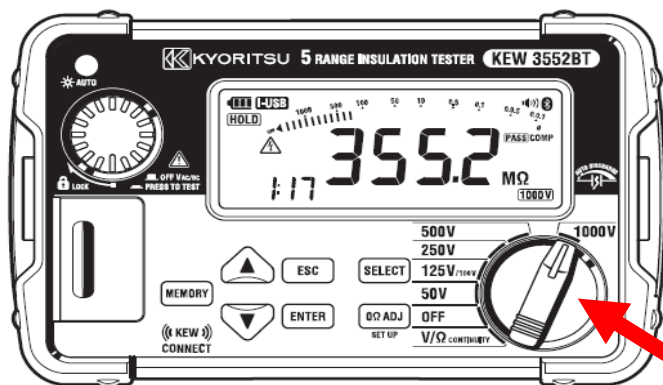
Connection and Disconnection

Connect KEW 3552 BT with your PC:

STEP 1

Power on KEW 3552 BT

- 1 Turn the Function switch and select any desired range.
* Please refer to the instruction manual for KEW 3552 BT for details.



Function switch

STEP 2

Turn on the necessary functions on your device. (If those have been turned off.)

Follow the procedures below and turn on the required functions mentioned above; if any of them are off. You can proceed to STEP 3 if all the functions are “On”.

- 1 Open “Settings” on your device.

CAUTION: Setting application depends on the device you’re using.
For details, please refer to the manual of the device you’re using.

- 2 Turn on the Bluetooth function.

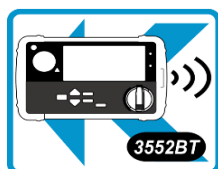
- 3 Turn on the location services.

iOS Privacy > Location Services

STEP 3

Start “KEW Smart for KEW 3552 BT”.

- 1 Tap the icon and get the application started.



← App icon for “KEW Smart for KEW 3552 BT”

Connection and Disconnection

STEP 4

Verify that the access is authorized. (required only for the first time)

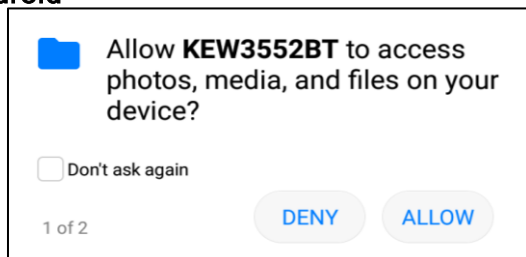
This authorization check is required when:

- the settings or data of the application is restored to default, or
- the app is re-installed.

If the access right has been already confirmed, you can proceed to STEP 5.

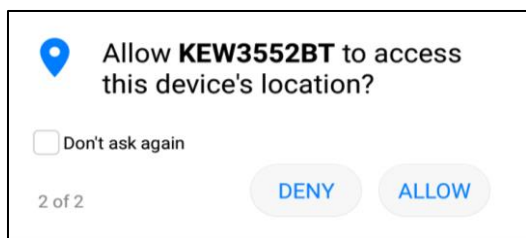
1 Several authorization checks are performed when the app gets started. Select **Allow** for all.

Android



Access to files:

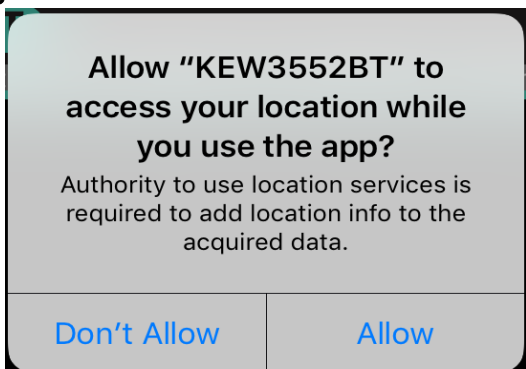
Access authorization required to save/ read measured data.



Access to device location:

Access authorization required to use Bluetooth LE function and to add and save data with location info.

iOS



Location Services:


Authorization required to use Bluetooth LE function and to add location info. to the saved data.

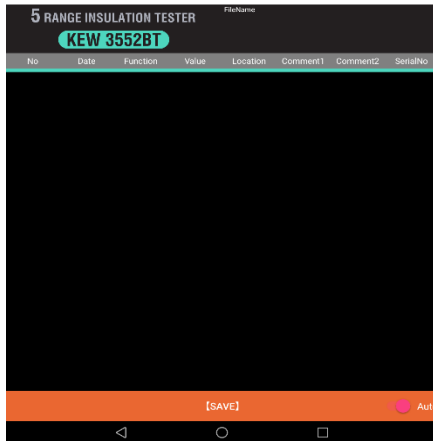
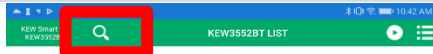
* This confirmation message appears just once before shifting to the setting screen.
Don't Allow Allow

Connection and Disconnection

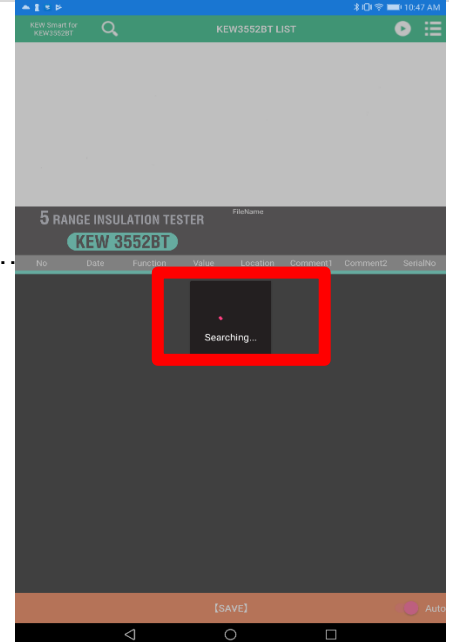
STEP 5

Search KEW 3552 BT you want to connect:

- 1 Tap the Search  button to search KEW 3552 BT in close proximity.

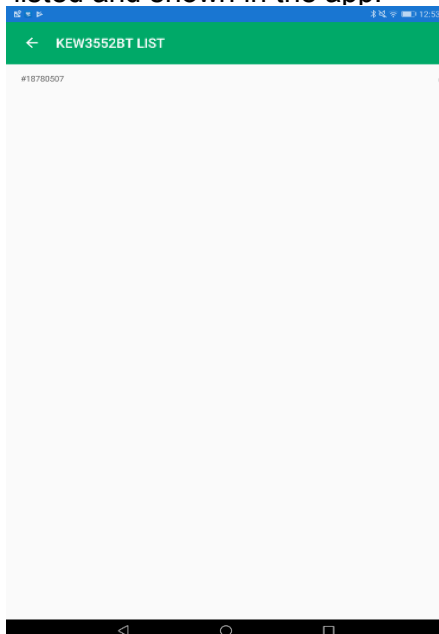


Begins searching...

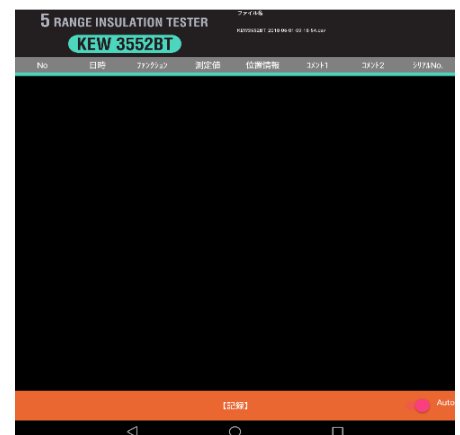


- 2 Select the target KEW 3552 BT from the list shown in the app.

Founded KEW 3552 BT is/ are listed and shown in the app.



Tap the Serial No. to cancel the selection.



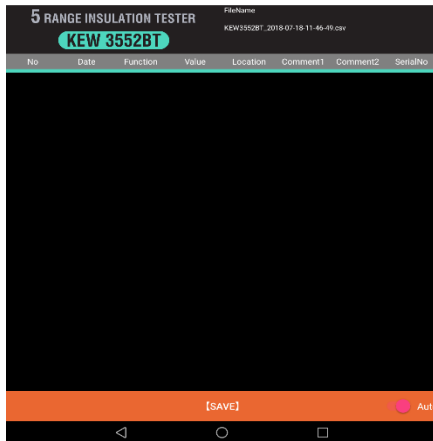
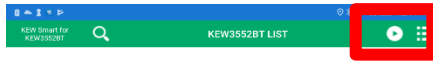
* Serial no. is marked on the rear side of the product.

Connection and Disconnection

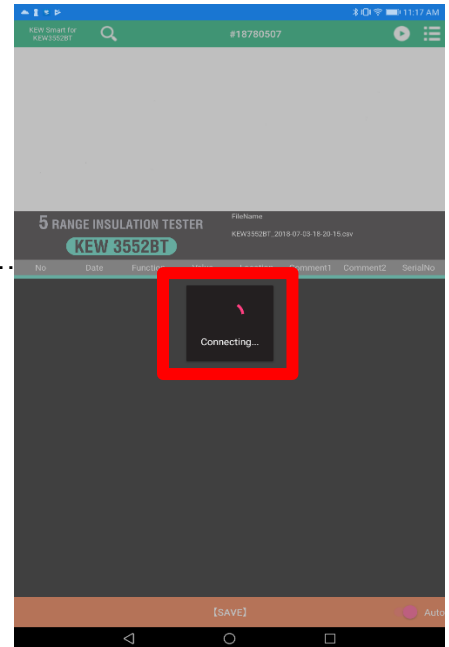
STEP 6

Connection

- 1 Tap the  button to establish connection.

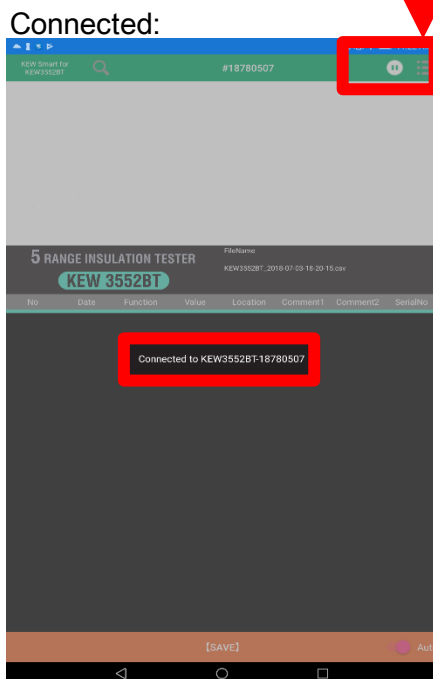


Begins connection..



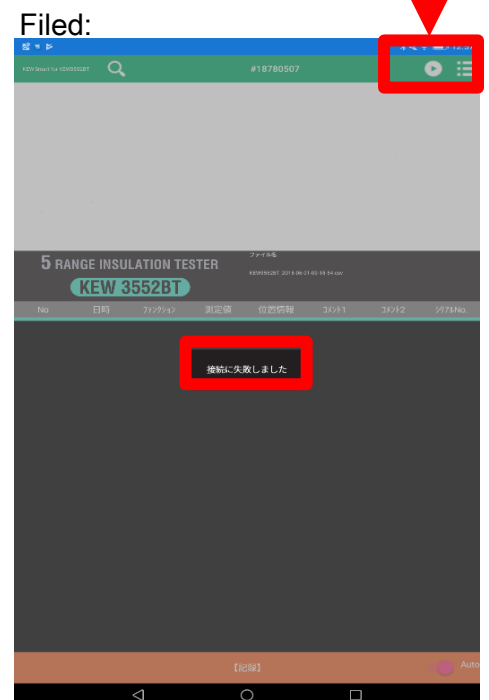
- 2 Confirm that the connection has been successfully established.

Disconnect button appears.



Displayed message:
Connected to "KEW3552BT-xxxxxxx"

Connect button appears.




Displayed message:
Connection error

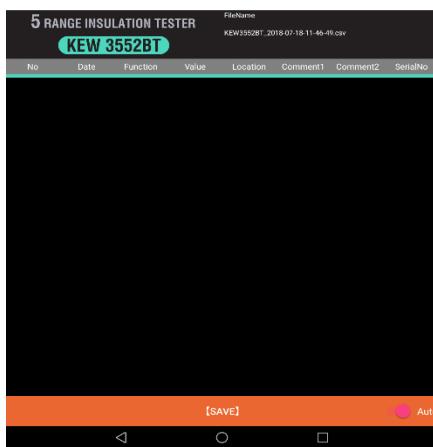
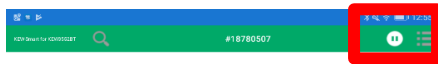
Connection and Disconnection

Disconnection

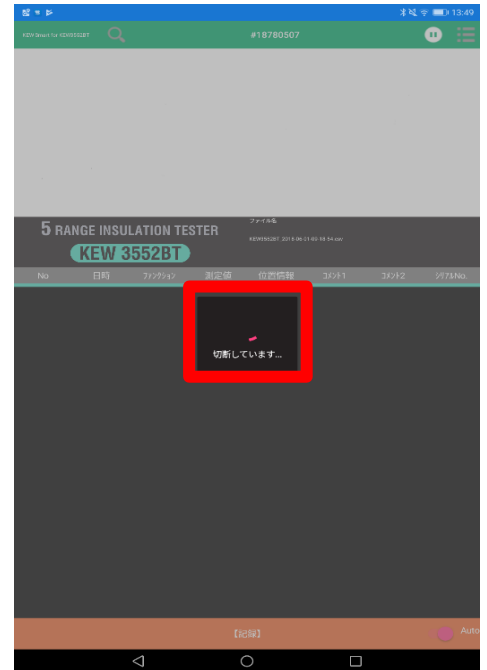
STEP 1

Disconnect your KEW 3552 BT from the app.

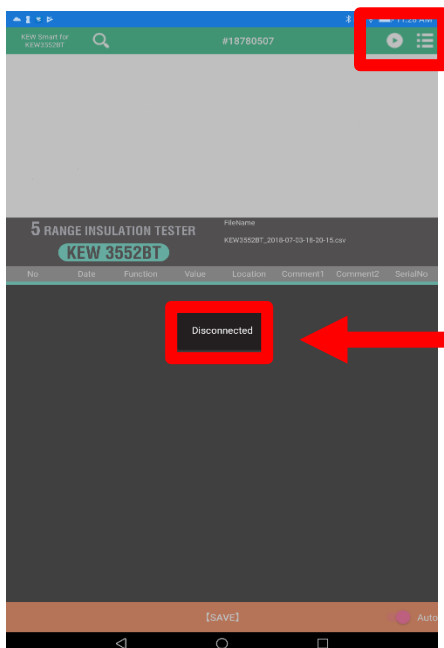
1 Tap  button to disconnect.



Disconnecting...



2 Now the selected KEW 3552 BT is disconnected.



The button switches to Connect button.



Message - Disconnected - appears.



Bluetooth is automatically disconnected when the connected KEW 3552 BT is powered off. On an Android device, connection process automatically resumes when powering on the previously connected KEW 3552 BT.

Data saving

How to save the measured data

STEP 1

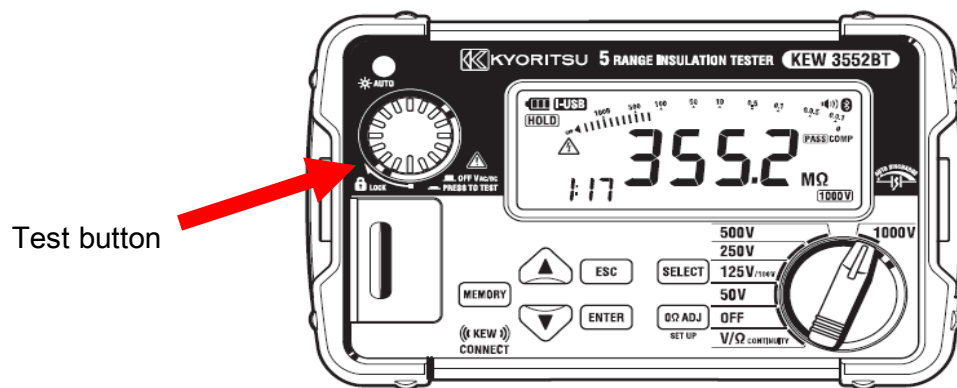
Connect KEW 3552 BT with your PC.

- 1 Refer to the "Connection and Disconnection" pages to see how to connect the device.

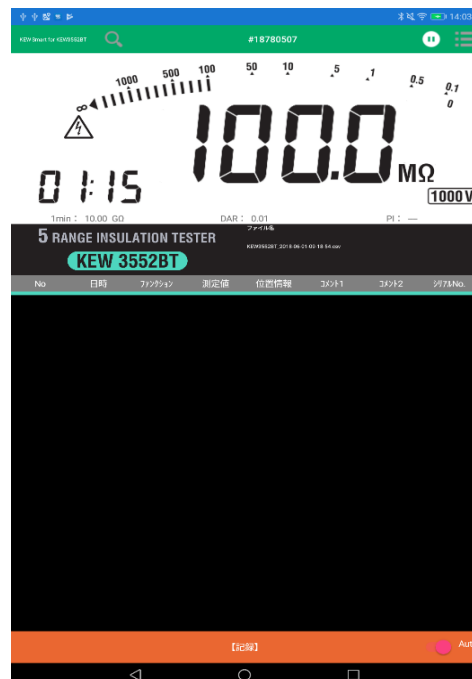
STEP 2

Start measurement.

- 1 Press the Test button on KEW 3552 BT (or Remote switch) and start a measurement.



- 2 Measured result is shown in the app screen.

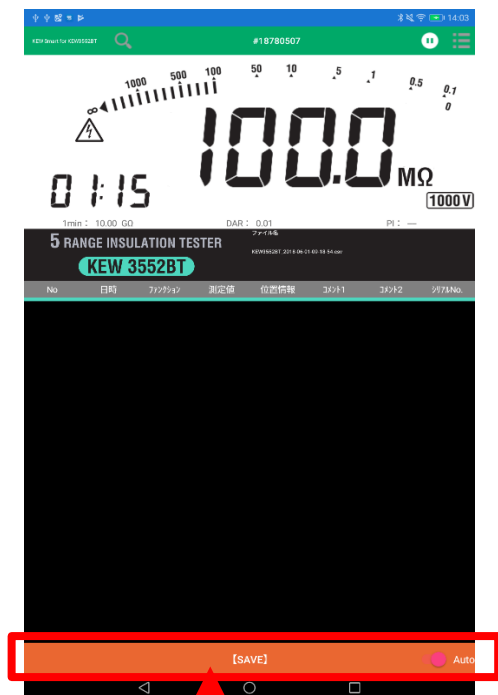


Data saving

STEP 3

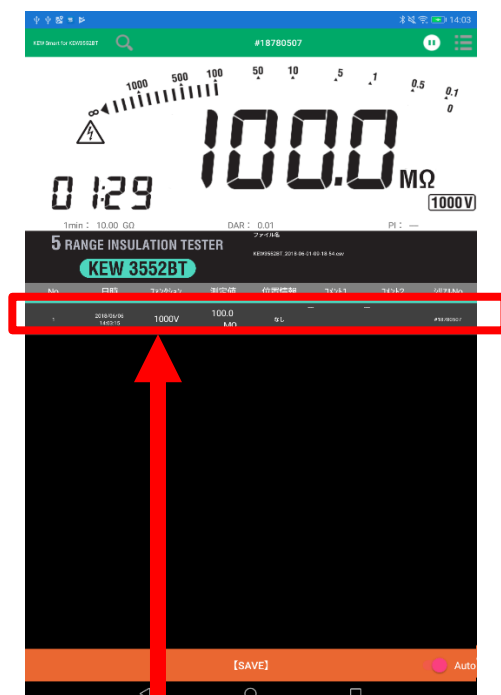
Save the measured data.

1 Tap the [SAVE] button.



Tap the [SAVE] button.

After tapping [SAVE] button,



Measured data is saved and displayed.

Data saving

Items shown in the Saved data list

Title

No	Date	Function	Value	Location	Comment1	Comment2	SerialNo	Additional Info
2	2018/06/12 15:38:11	50V	>104.9 MΩ	ON	----	----	#00187909	1min:>104.9M Ω DAR:----

Detail

Title	Detail
No.	Data no. is assigned to the saved data. (starting with no.1) * No. 1000 is the max.
Date	Date and time when the data was saved.
Function	"VOLT": Voltage measurement "50V" - "1000V": Insulation resistance measurement "CONT": Low-resistance measurement
Value	Results obtained from KEW 3552 BT
Location	"ON": saved with location info. "OFF": saved without location info.
Comment 1 Comment 2	Any texts can be entered. Tap the field to enter texts.
Serial No.	Serial No. of the connected KEW 3552BT
Additional info.	DC/AC of measured voltage, 1-min value of insulation resistance, and PI/DAR value

Data saving

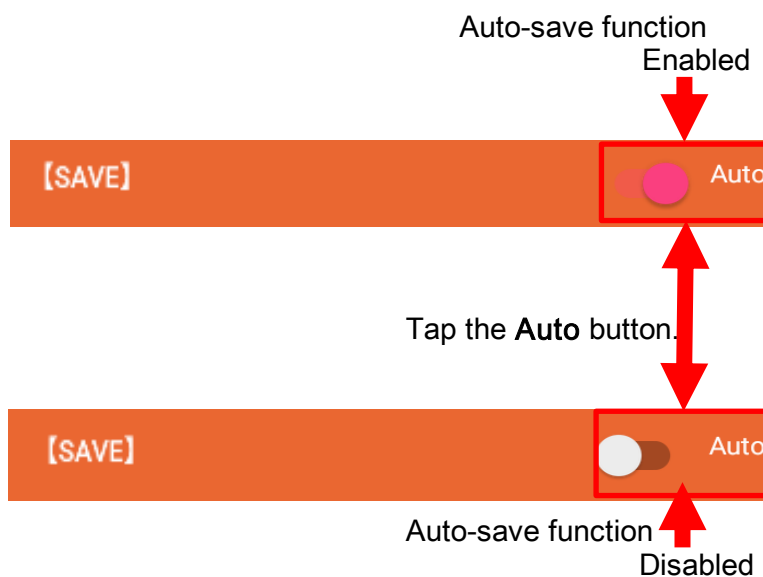
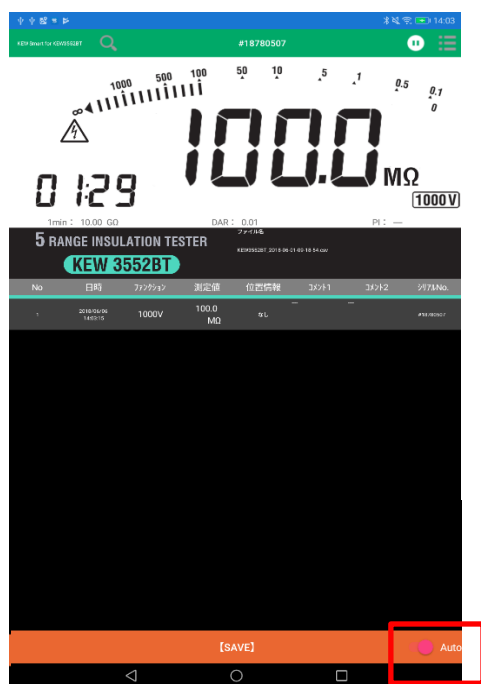
Auto-save

STEP 1

Turn on the Auto-save function.

1 Long press of [SAVE] button turns on this function.

Or, tap  Auto button.

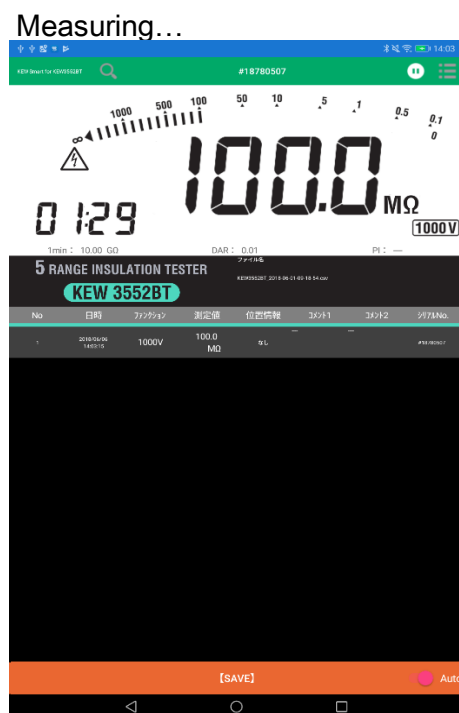


Data saving

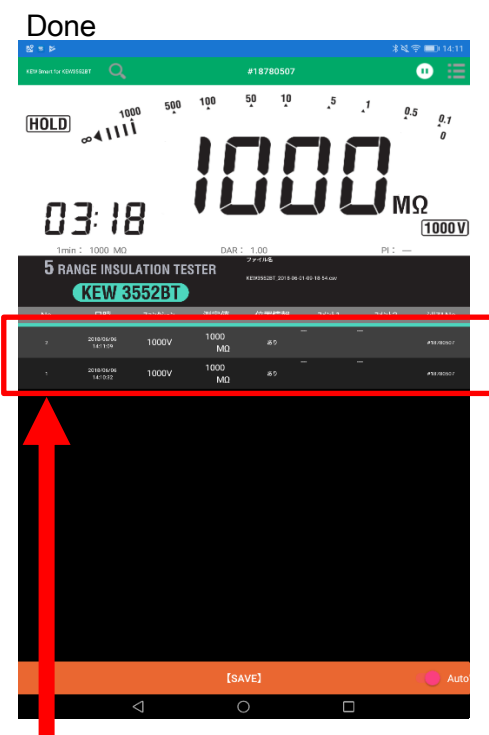
STEP 2

Save the measured result automatically.

1 Press the Test button on KEW 3552 BT and start a measurement.



Measurement completes.




Measured results are shown in the list.

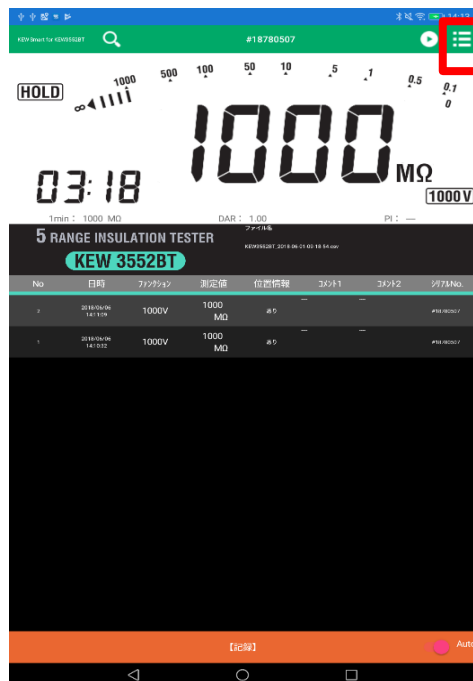
Creating/ editing files

Menu

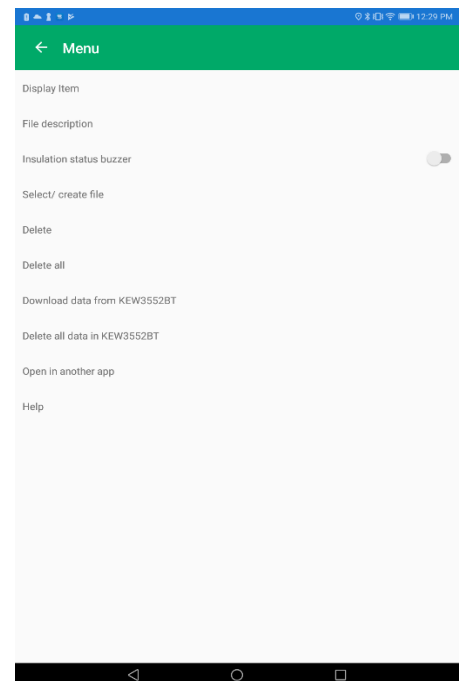
STEP 1

Open the Menu.

1 Tap the Option menu  button.



Option menu button



* To open the Menu, you need to disconnect the KEW 3552 BT first.

Creating/ editing files

STEP 2

Menu contents

1 Details

Title	Detail
Insulation status buzzer	Turn on/ off the insulation status warning buzzer in the app. * This setting doesn't affect nor related to the buzzer setting of KEW 3552 BT itself.
Display item	Select the items to show or hide.
File description	You can add annotation in the currently open file. The entered annotation is displayed below the file name.
Select/create file	Switch and select the file to be saved or displayed. Creating a new file is also possible. Currently displayed file name is displayed at the lower right in the meter screen.
Delete	Selection screen is shown. Select the record(s) you wish to delete and tap "DELETE". Tap back button to cancel selecting file(s).
Delete all	Clear and delete all the records contained in the currently open file. File descriptions won't be cleared.
Download data from KEW 3552 BT	Download the saved data from KEW 3552 BT. ⇒P.28
Delete all data in KEW 3552 BT	Clear and delete all the data saved in KEW 3552 BT. ⇒P.29
Open in another app	Open the currently open file in another application.

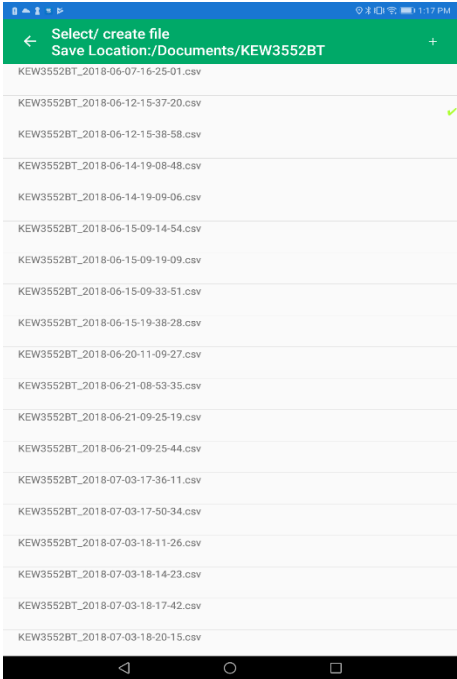
Creating/ editing files

Creating a new file

STEP 1

Open the Select/ create file screen.

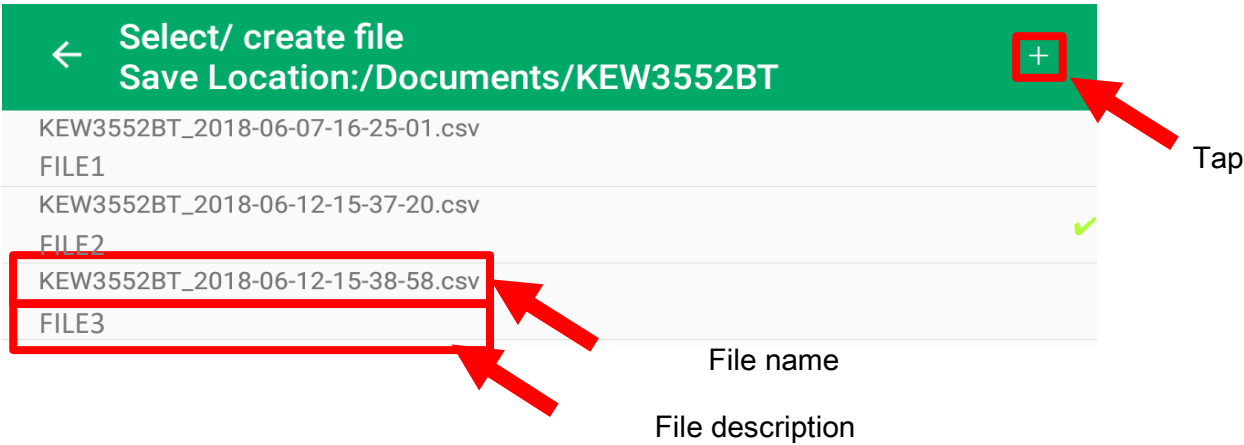
- 1 Tap "Select/create file" on the menu.



STEP 2

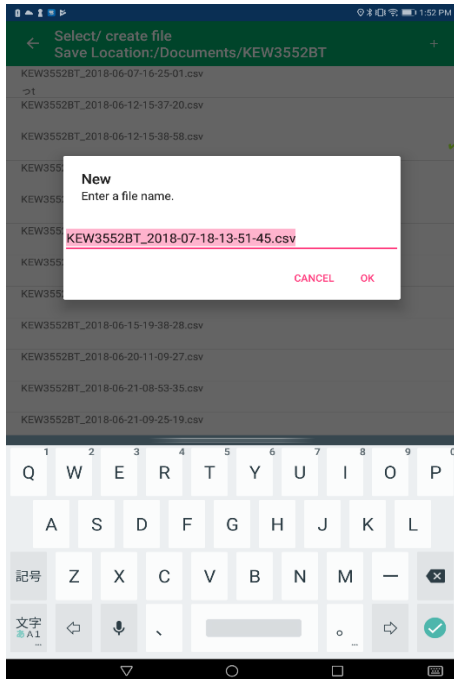
Open Create new screen.

- 1 Tap the "+" symbol to create a new file.



Creating/ editing files

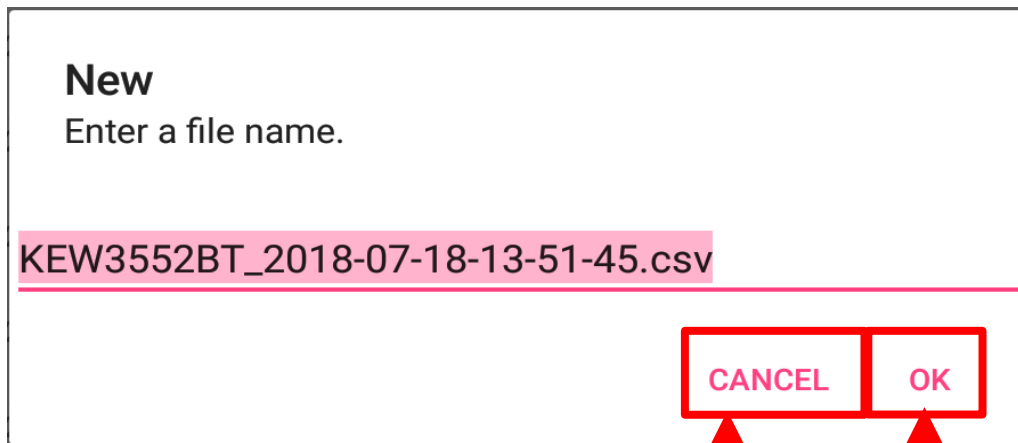
2 A window opens to create a new file.



STEP 3

Name the new file.

1 Tap OK when file name enter completes.



Cancel to create a new file.

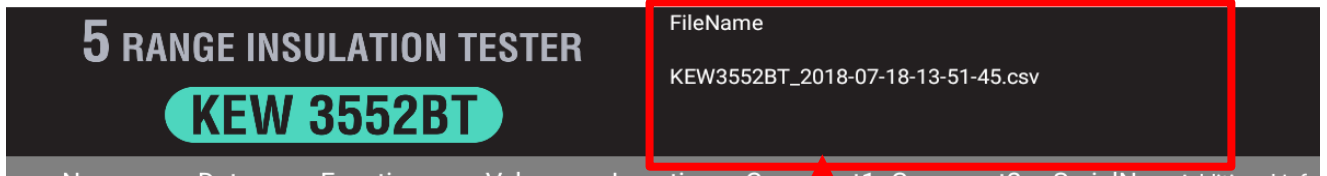
Create a new file under this entered name.

Creating/ editing files

STEP 4

Created new file is shown.

1 The new file you created appears.



New file name is displayed.

Creating/ editing files

To show another file

STEP 1

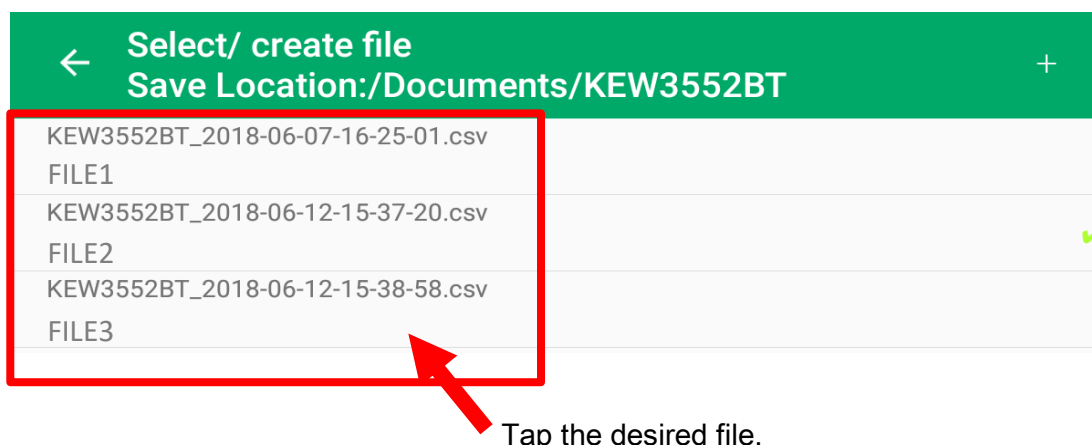
Open Select/ create file screen.

- 1 Tap "Select/create file" on the menu.

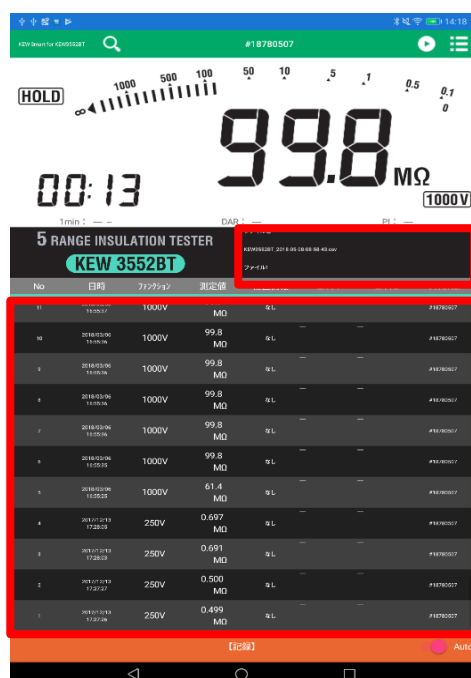
STEP 2

Select the desired file.

- 1 Select and tap the desired file.



- 2 The selected file is shown.



Details of the selected file is shown.

File name
File description
Saved records

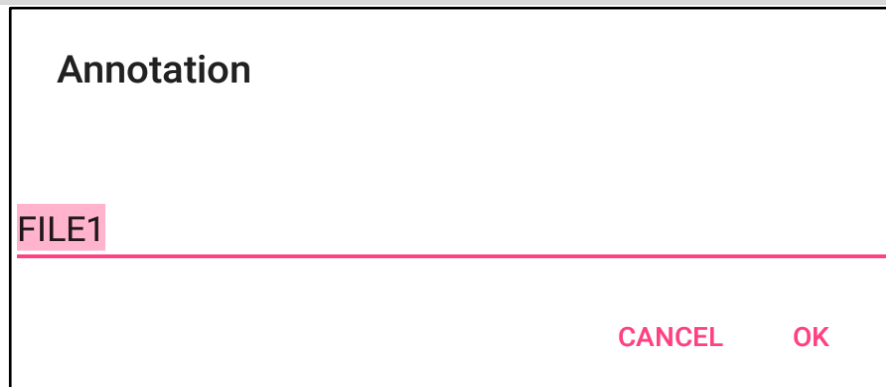
Editing the saved data

Add/ alter file descriptions

STEP 1

Open the File description screen.

- 1 Tap "File description" to show a window to enter descriptions.



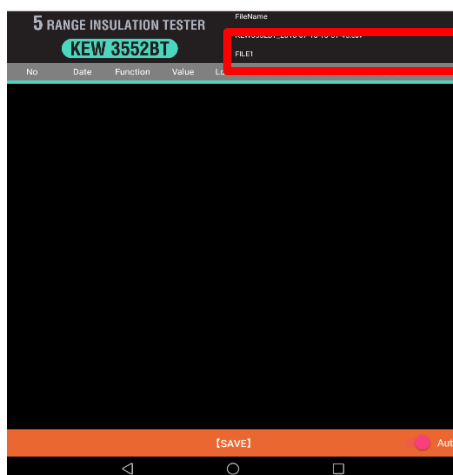
Annotation

FILE1

CANCEL OK

- 2 Enter any descriptions and tap "OK".

- 3 New or updated descriptions are saved and displayed.



Entered file description is displayed.

Editing the saved data

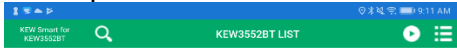
Edit comments on records

STEP 1

Open a dialog box to enter comments on record.

1 Tap the desired comment column in the shown list.

Example: To enter comments on “Comment 1” for “No. 10”



5 RANGE INSULATION TESTER									
KEW 3552BT									
No	Date	Function	Value	Location	Comment1	Comment2	SerialNo	Additional Info	
13	2018/06/12 15:18:05	50V	>104.9 MQ	ON			#00187909	1msec>104.9M	D
12	2018/06/12 07:58:50	125V	0.000 MQ	OH			#00187894	DAR---	PL---
11	2018/06/12 07:58:44	50V	0.000 MQ	OFF			#00187894	Test---MQ	DAR---
10	2018/06/12 07:58:12	50V	0.000 MQ	OFF			#00187894	DAR---	PL---
9	2018/06/12 07:58:08	50V	0.000 MQ	OFF			#00187894	Test---MQ	DAR---
8	2018/06/12 07:57:29	50V	0.000 MQ	OFF			#00187894	DAR---	PL---
7	2018/06/12 07:57:27	50V	0.000 MQ	OFF			#00187894	Test---MQ	DAR---
6	2018/06/12 09:55:57	50V	0.000 MQ	OFF			#00187894	DAR---	PL---
5	2018/06/12 09:45:48	50V	>104.9 MQ	OFF			#00187894	Test---MQ	DAR---
4	2018/06/12 09:45:38	VOLT	0.0 V	OFF			#00187894	DAR---	PL---
3	2018/06/07 16:21:06	250V	> 524 MQ	ON			#00187909	Test---MQ	DAR---

Tap the comment column you wish to modify.

2 A dialog box pops up.

Comment1

CANCELOK

Editing the saved data

STEP 2

Edit comments on records.

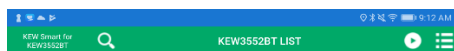
- 1 Tap the comment column and edit the comments, and then tap “OK”.

Comment1

EDIT1

CANCEL OK

- 2 Updated comments are displayed.



5 RANGE INSULATION TESTER									
KEW 3552BT									
No	Date	Function	Value	Location	Comment1	Comment2	SerialNo	Additional info	
13	2018/06/12 15:18:05	50V	>104.9 MQ	ON	EDIT1		#00187909	1min->104.9M	DAR---
12	2018/06/12 09:58:50	125V	0.000 MQ	OFF			#00187894	DAR---	PI---
11	2018/06/12 09:58:44	50V	0.000 MQ	OFF			#00187894	1min->MQ	DAR---
10	2018/06/12 09:58:12	50V	0.000 MQ	OFF			#00187894	DAR---	PI---
9	2018/06/12 09:58:08	50V	0.000 MQ	OFF			#00187894	1min->MQ	DAR---
8	2018/06/12 09:57:29	50V	0.000 MQ	OFF			#00187894	DAR---	PI---
7	2018/06/12 09:57:27	50V	0.000 MQ	OFF			#00187894	1min->MQ	DAR---
6	2018/06/12 09:55:57	50V	0.000 MQ	OFF			#00187894	DAR---	PI---
5	2018/06/12 09:49:48	50V	>104.9 MQ	OFF			#00187894	1min->MQ	DAR---
4	2018/06/12 09:49:38	VOLT	0.0 V	OFF			#00187894	DAR---	PI---
3	2018/06/07 16:51:06	250V	> 524 MQ	ON			#00187909	1min->MQ	DAR---

[SAVE] Auto

Updated comments are displayed.

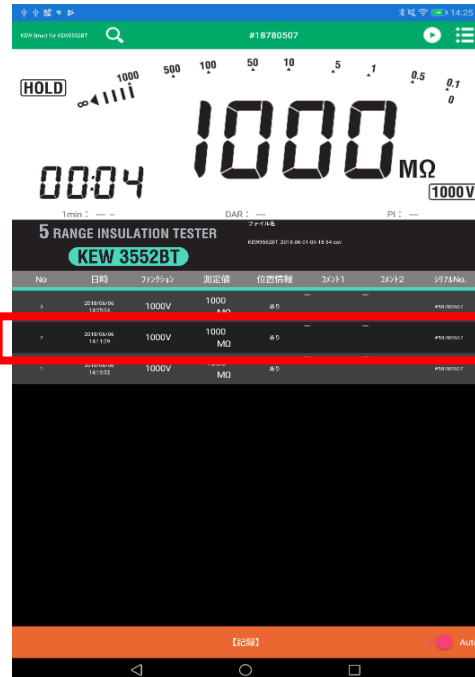
Deleting the saved data

Delete one record.

STEP 1

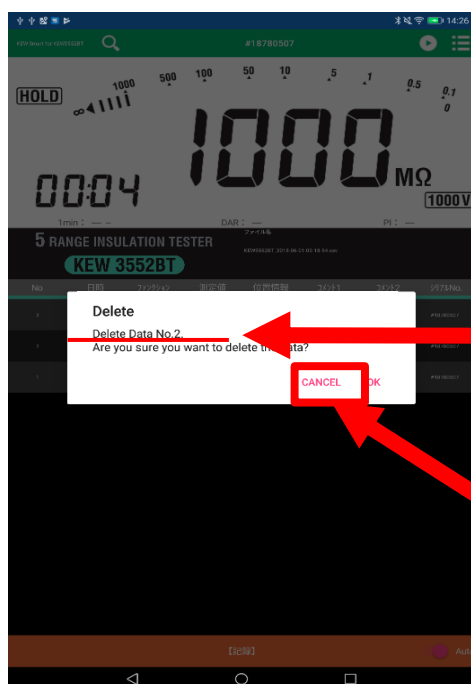
Select the record you wish to delete.

1 Long press on the record you wish to delete.



Long press on the record you wish to delete.

2 Check the displayed record no.



Confirm the displayed no. is the one you selected.

If a different no. is displayed, tap **Cancel**.

Deleting the saved data

STEP 2

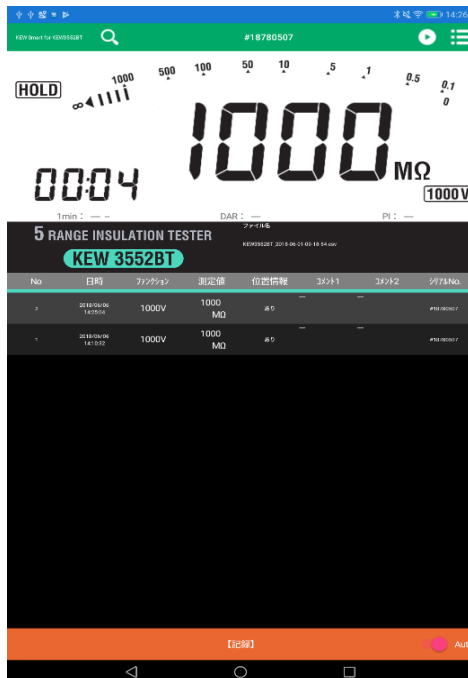
Delete the selected record.

1 Tap OK in the confirmation box.



Tap OK.

2 The selected record has been deleted.



Since the record - Data No. 2 - is cleared, No. 3 now re-numbered to No. 2.

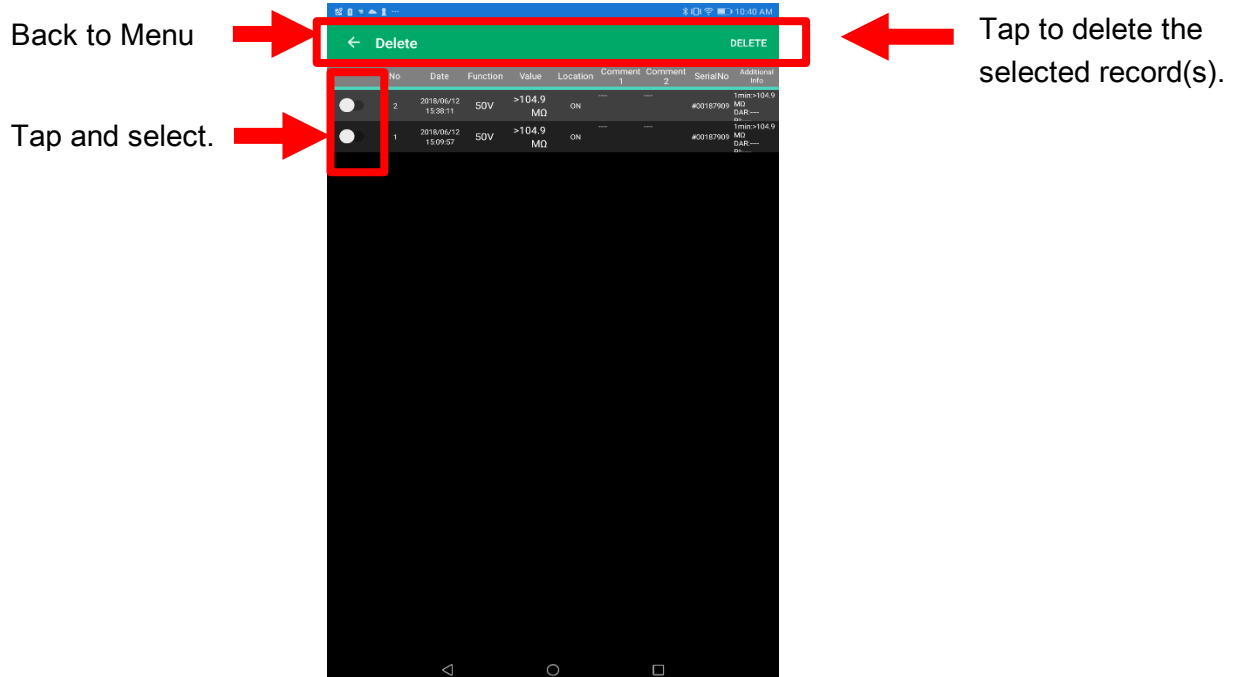
Deleting the saved data

Select and delete multiple records

STEP 1

Open the selection screen.

1 Tap **Delete** in the menu to open the selection screen.



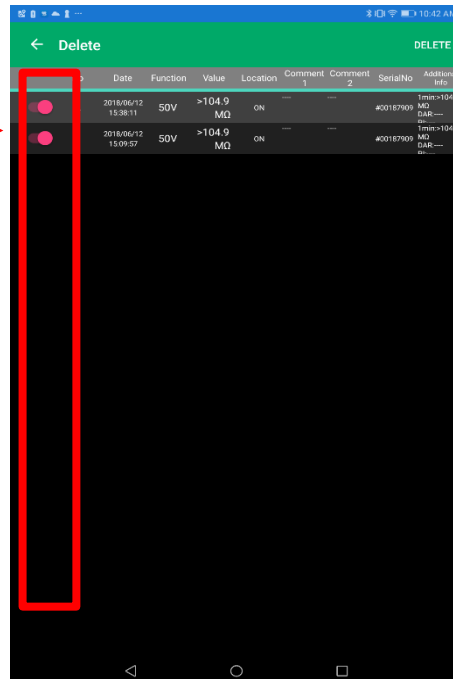
Deleting the saved data

STEP 2

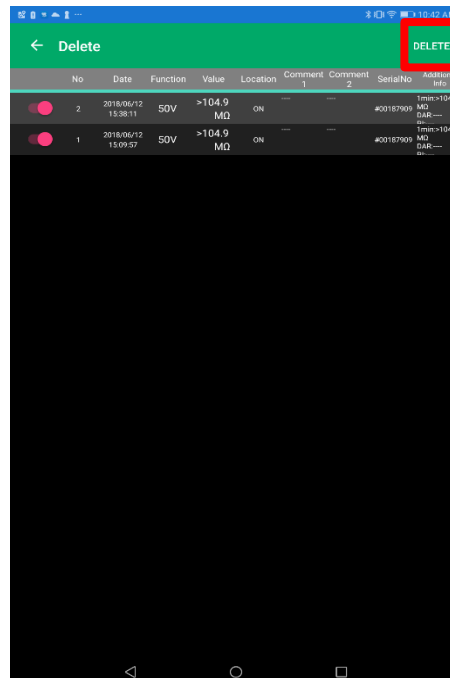
Select and delete multiple records

1 Select the records you wish to delete.

Select the records
you wish to delete.



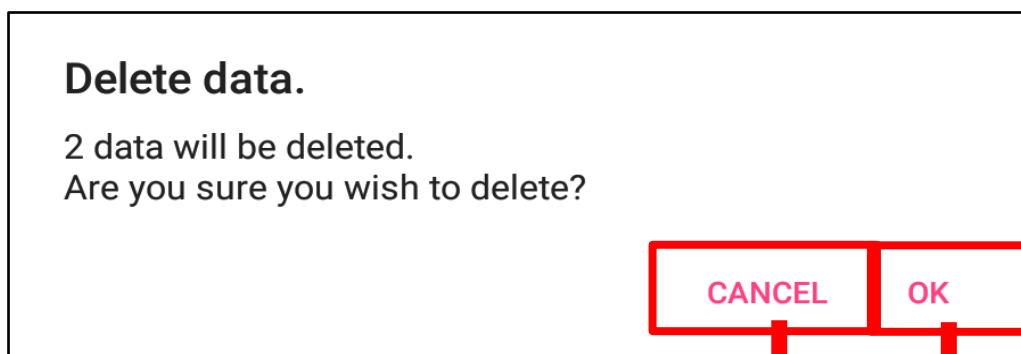
2 Tap **DELETE** to delete the selected records.



Tap **DELETE** .

Deleting the saved data

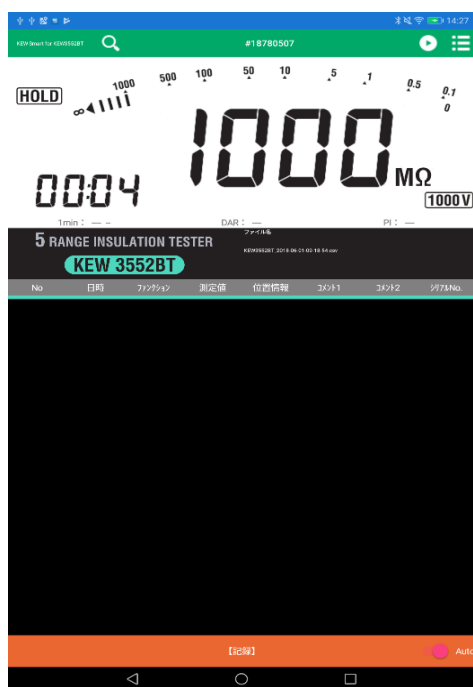
3 Check the confirmation message.



Back to the previous screen.

Delete the selected records.

4 The selected records have been deleted by tapping OK.



The selected records have been deleted.

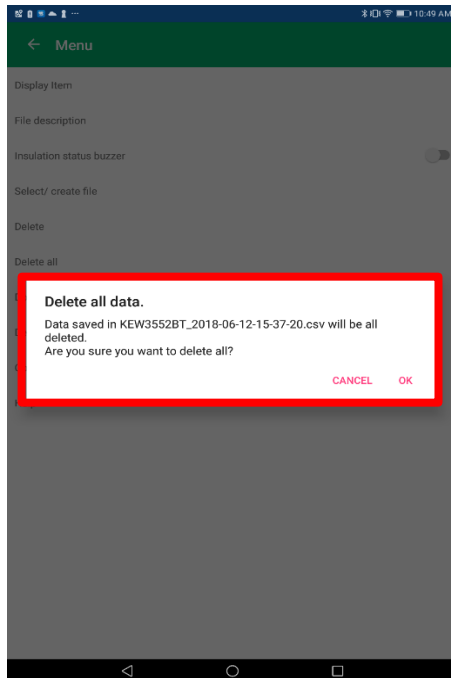
Deleting the saved data

Delete all records

STEP 1

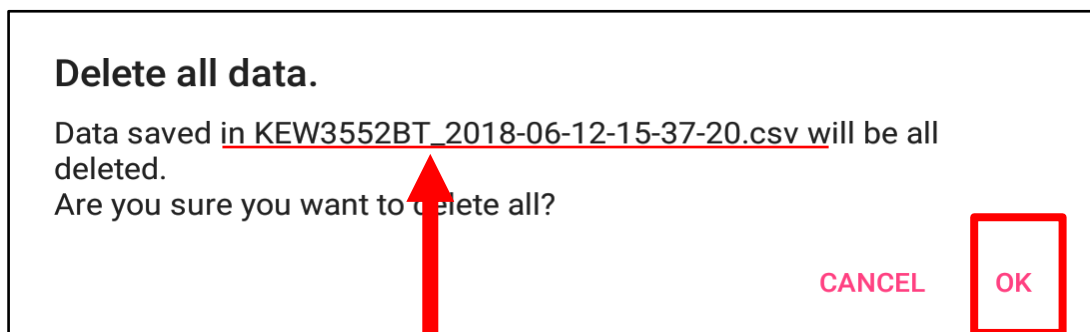
Delete all records.

1 Tap **Delete all** in the menu. Then a confirmation box pops up.



Confirmation box

2 Tap **OK** to delete all records.



File name

3 All records will be deleted by tapping **OK**.

Management of KEW 3552 BT internal memory

Download all data from KEW 3552 BT

STEP 1

Select a target KEW 3552 BT.

- 1 Select the serial no. of the target KEW 3552 BT with reference to *Connection and Disconnection* pages. Disconnection of Bluetooth is required to download the data from KEW 3552 BT.

STEP 2

Open "Download data from KEW 3552 BT" in the menu.

- 1 Tap **Download data from KEW 3552 BT** in the menu. A box appears to enter a file name to save the downloaded data.

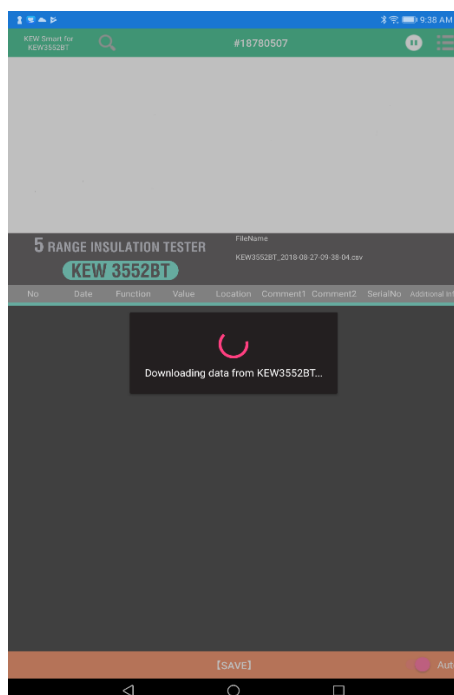
New
Enter a file name.

KEW3552BT_2018-07-18-13-51-45.csv

CANCEL OK

- 2 Tap OK when file name enter completes.

- 4 All the data in the target KEW 3552 BT internal memory will be downloaded and listed in the screen.



No	Date	Function	Value	Location	Comment1	Comment2	SerialNo	Additional info
73	2018/03/06 16:57:44	VOLT	< 629 V	ON			#18780507	DC-
72	2018/03/06 16:57:44	VOLT	< 629 V	ON			#18780507	DC-
71	2018/03/06 16:57:44	VOLT	< 629 V	ON			#18780507	DC-
70	2018/03/06 16:57:43	VOLT	< 629 V	ON			#18780507	DC-
69	2018/03/06 16:57:40	VOLT	57.6 V	ON			#18780507	DC-
68	2018/03/06 16:57:33	VOLT	> 629 V	ON			#18780507	DC+
67	2018/03/06 16:57:33	VOLT	> 629 V	ON			#18780507	DC+
66	2018/03/06 16:57:33	VOLT	> 629 V	ON			#18780507	DC+
65	2018/03/06 16:57:30	VOLT	> 629 V	ON			#18780507	DC+
64	2018/03/06 16:57:22	VOLT	> 629 V	ON			#18780507	AC
63	2018/03/06 16:57:20	VOLT	> 629 V	ON			#18780507	AC

Management of KEW 3552 BT internal memory

Delete all the KEW 3552 BT internal data

STEP 1

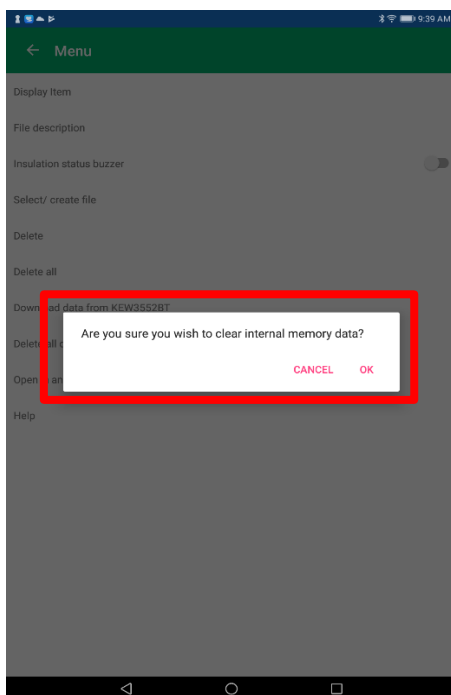
Select the target KEW 3552 BT.

- 1 Select the serial no. of the target KEW 3552 BT with reference to *Connection and Disconnection* pages. Disconnection of Bluetooth is required to download the data from KEW 3552 BT.

STEP 2

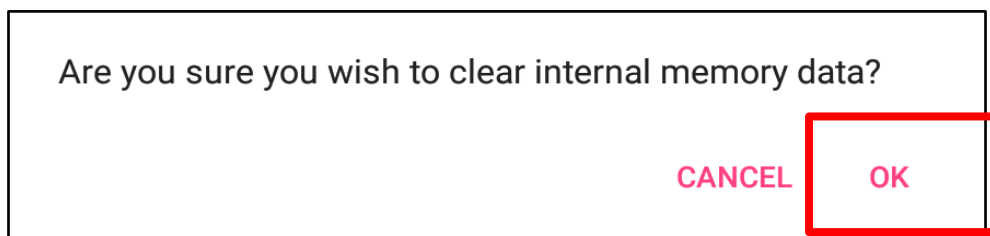
Open Delete all data in KEW 3552 BT in the menu.

- 1 Tap **Delete all data in KEW 3552 BT** in the menu. Then a confirmation box pops up.



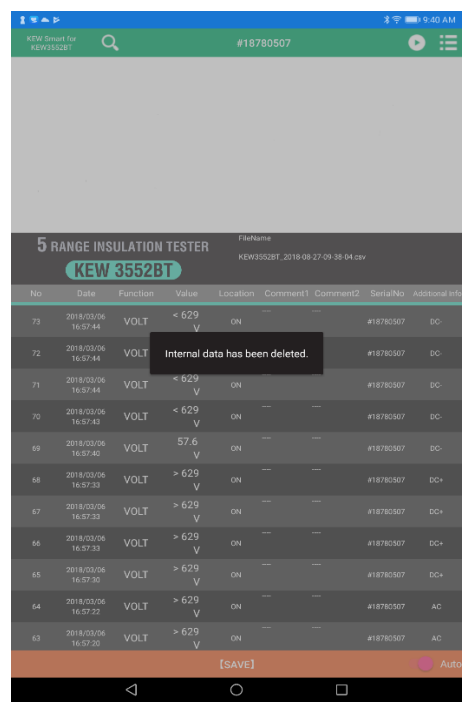
Confirmation box

- 2 Tap **OK** to delete all the data in KEW 3552 BT.



Management of KEW 3552 BT internal memory

3 All the data have been deleted from KEW 3552 BT.



The screenshot shows the '5 RANGE INSULATION TESTER' application for the 'KEW 3552BT' device. A confirmation message 'Internal data has been deleted.' is displayed over the data table. The table contains 13 rows of test data with columns for No, Date, Function, Value, Location, Comment1, Comment2, SerialNo, and Additional info. The bottom of the screen features a '[SAVE]' button and an 'Auto' indicator.

No	Date	Function	Value	Location	Comment1	Comment2	SerialNo	Additional info
73	2018/03/06 16:57:44	VOLT	< 629 V	ON	---	---	#18780507	DC
72	2018/03/06 16:57:44	VOLT	< 629 V	ON	---	---	#18780507	DC
71	2018/03/06 16:57:44	VOLT	< 629 V	ON	---	---	#18780507	DC
70	2018/03/06 16:57:43	VOLT	< 629 V	ON	---	---	#18780507	DC
69	2018/03/06 16:57:40	VOLT	57.6 V	ON	---	---	#18780507	DC
68	2018/03/06 16:57:33	VOLT	> 629 V	ON	---	---	#18780507	DC+
67	2018/03/06 16:57:33	VOLT	> 629 V	ON	---	---	#18780507	DC+
66	2018/03/06 16:57:33	VOLT	> 629 V	ON	---	---	#18780507	DC+
65	2018/03/06 16:57:30	VOLT	> 629 V	ON	---	---	#18780507	DC+
64	2018/03/06 16:57:22	VOLT	> 629 V	ON	---	---	#18780507	AC
63	2018/03/06 16:57:20	VOLT	> 629 V	ON	---	---	#18780507	AC

File transfer to PC

On Android device:

Caution: The following procedures are for devices running on Android 5.0 or later and PCs on Windows 7 or later. The procedures and displays vary depending on the devices and PCs you're using.

STEP 1

Connect your Android device and PC with a USB cable.

1 Connect a USB cable to your Android device.

2 Tap the notification pops up in the device screen.

3 Tap **【Device file manager(MTP)】**.

STEP 2

Transfer files to PC.

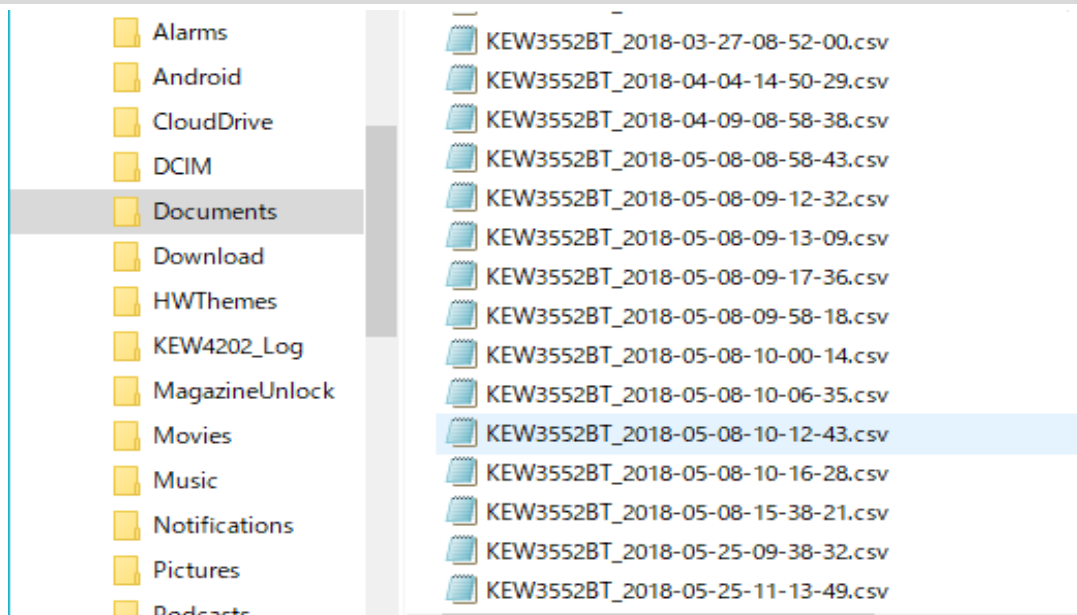
1 Access your Android device from PC.

2 Go to **【[Android]\Internal storage\Documents\KEW3552BT】**.

3 Copy or drag the target file to your desired folder.

4 Disconnect the device from the PC when file transfer completes.

5 Disconnect the USB cable.



File transfer to PC

On iOS device:

Caution: The following procedures are for devices running on iOS 10.0 or later and PCs on Windows. The procedures and displays vary depending on the devices and PCs you're using. Before proceeding, ensure that the iTunes app has been installed in your PC.

STEP 1

Connect your iOS device and PC with a Lightning cable.

1 Connect a lightning cable to your iOS device.

2 Click the device button.



STEP 2

File transfer

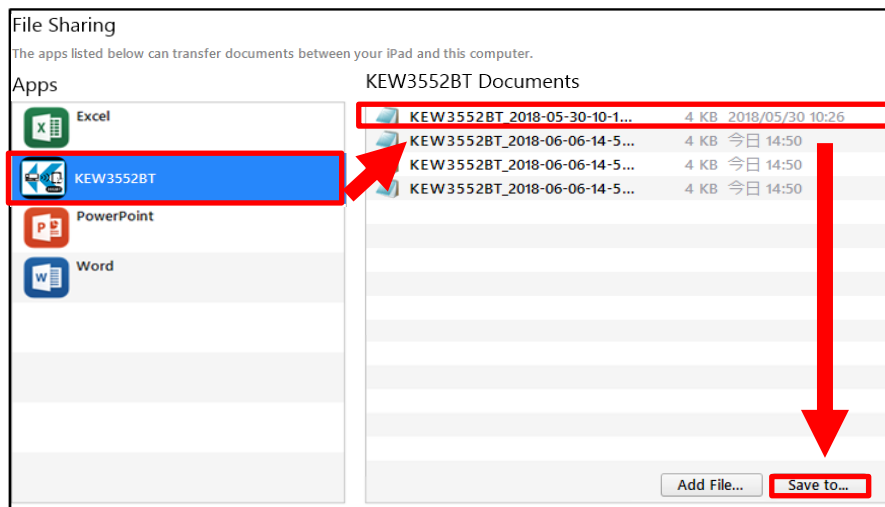
1 Select “App” shown in the sidebar on the side of your screen.

2 Scroll down the screen and select KEW3552BT listed in **File Sharing**.



File transfer to PC

3 Select the file you wish to make a copy and click “Save to”.



* Copying the file can be done by drag-and-drop.

4 Select the destination to save the file.

5 The copied file is saved in the specified folder.

6 Disconnect from the PC when file transfer completes.

7 Disconnect the Lighting cable.

Other features

Show the saved data

STEP 1

Show the saved data in screen.

1 Tap the record you wish to check the detail.



Measured value saved in the selected record is shown.

Tap any records you wish to check.

Cautions:

1. Disconnect Bluetooth connection to view the records.
2. Be careful – a long press will delete the record.

Other features

Open a map based on the location info.

STEP 1

Select a record saved with location info.

1 Tap the record with "ON" listed in the Location column.

No	日時	ファンクション	測定値	位置情報	コメント1	コメント2	シリアルNo.	測定値情報
4	2018/06/06 14:35:55	1000V	1000 MΩ	あり		—	#18780507	1min:— DAR:— PI:—

Tap on a record with "ON" .

2 Tap OK in the confirmation box.

Open a map.

Latitude : 33.83412831
Longitude : 132.77606279

CANCEL

OK

Location info. of the saved record.

3 MAP app gets started and shows the location where the record was saved.

For details of the MAP app, please check with the distributor of the app you're using.

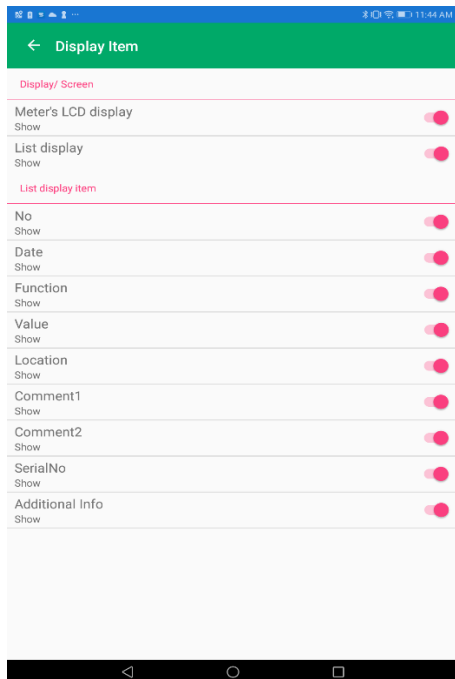
Other features

Display layout change

STEP 1

Tap the Display item in the menu.

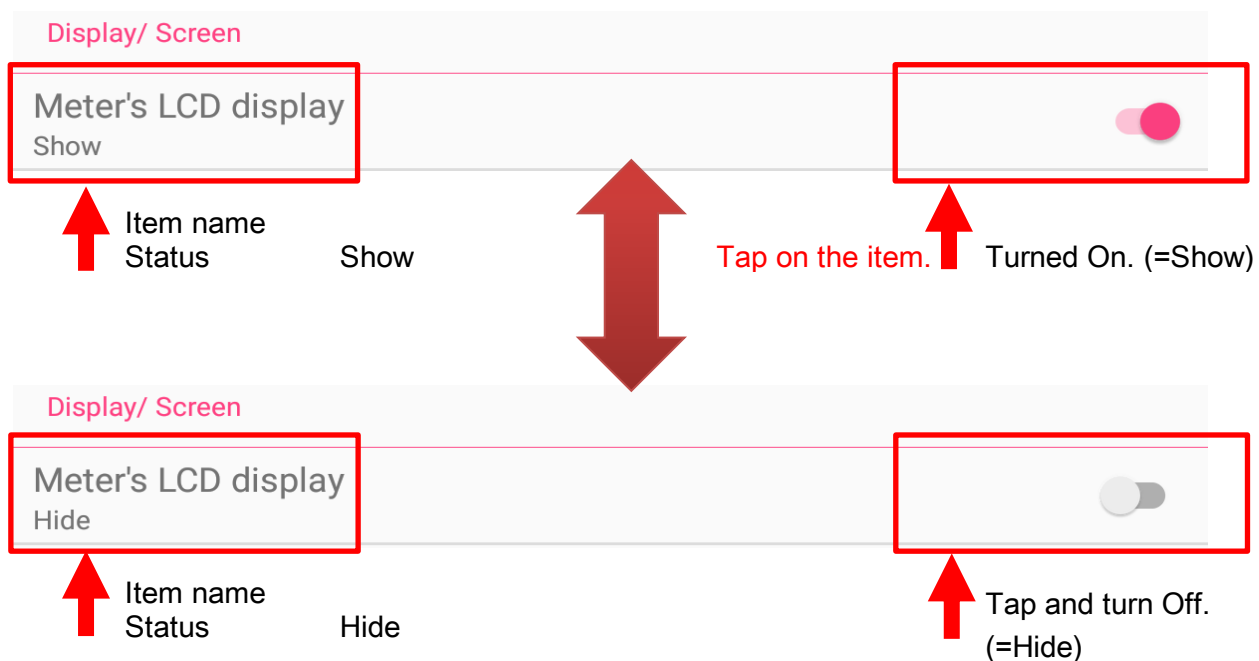
- 1 Tap the Display item in the menu to open the selection screen.



STEP 2

Select the items you wish to display in the app screen.

- 1 Tap on the item to show or hide.

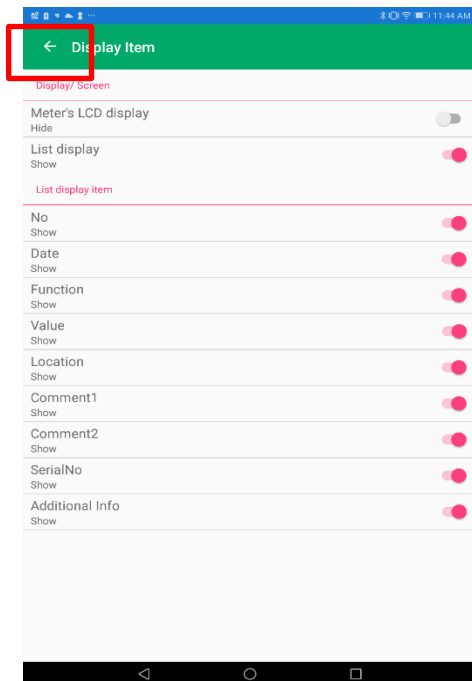


Other features

STEP 3

Check the display.

1 Tap back button and return to the previous screen.



No KEW 3552 BT
LCD display

Previous screen



Other features

Link with other apps

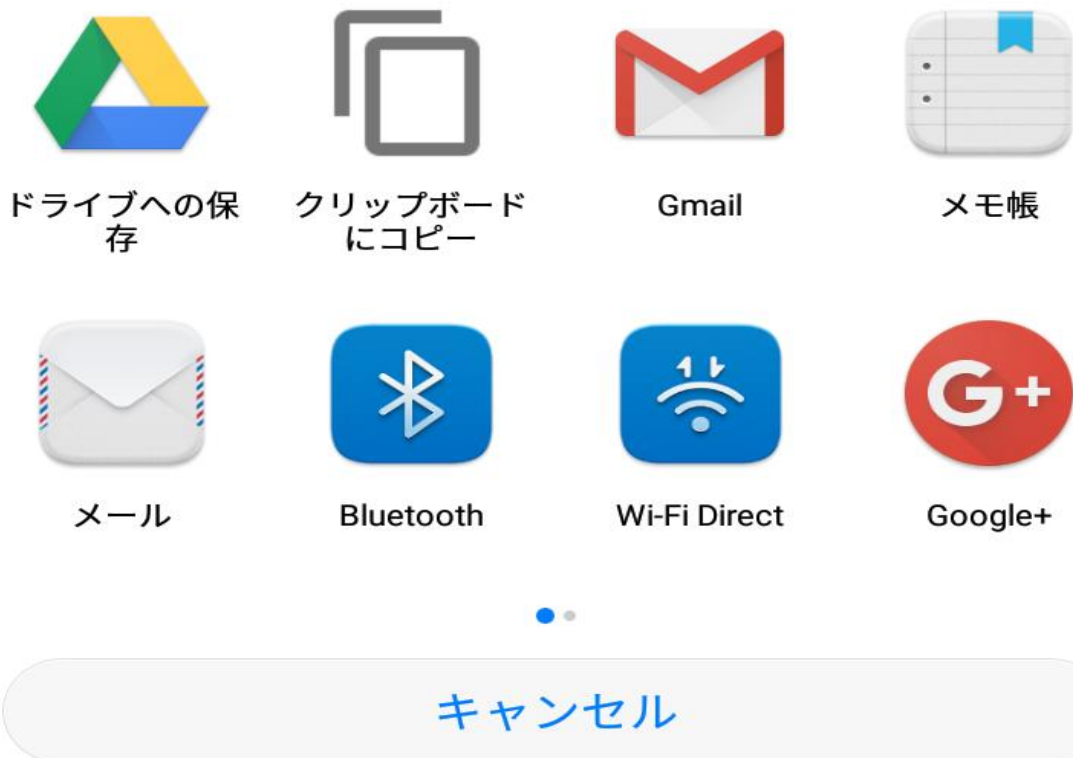
STEP 1

Open the app selection screen.

1 Tap **Open in another app** in the menu.

2 Choose the desired app.

Caution: The screen image below might be different from yours: it depends on the OS, model, or device. The apps to be displayed are the some of which have already been installed in.



3 The app you chosen will open.

For details of the app, please check with the distributor of the app you'll use.

Troubleshooting

* Failed to establish connection with KEW 3552 BT.

1 Check the unit KEW 3552BT itself.

Power off KEW 3552BT once, then on again and do search and connection procedures.

2 Check the settings of your Android/ iOS device.

Turn on the following functions:
Bluetooth and Location services (GPS / Wi-Fi).

3 Check the licensing status of the app.

Authorize KEW Smart for KEW3552BT to access the device.

Turn on the following functions:
Bluetooth and Location services.

As for the authorization procedures, please refer to the manual of the device you're using.

* Failed to create/ modify file(s) nor save/ delete record(s).

1 Check for the available space in the memory.

2 Check the licensing status of the app.

Authorize KEW Smart for KEW3552BT to access the device.

Turn on the following functions:

As for the authorization procedures, please refer to the manual of the device you're using.

* Storage capacity of file

1 Max. 1000 records per file.

2 Limit of the number of files depends on the available memory space of your device.

* Default destination to save file

Android :
Documents\KEW3552BT

iOS
KEW3552BT\Documents