



COMBICOM ACCESSORIES

INSTRUCTIONS FOR USE | INSTALLATION BLUETOOTH-ADAPTER

Translation of the original manual
Document 20260008 EN 01



Preface

The hardware and software described in this document are products of KEB. The information contained in this document is valid at the time of publishing. KEB reserves the right to update this document in response to misprints, mistakes or technical changes.

Signal words and symbols

Certain procedures within this document can cause safety hazards during the installation or operation of the device. Refer to the safety warnings in this document when performing these procedures. Safety signs are also located on the device where applicable. A safety warning is marked by one of the following warning signs:

DANGER	Dangerous situation, which will cause death or serious injury if this safety warning is ignored.
WARNING	Dangerous situation, which may cause death or serious injury if this safety warning is ignored.
CAUTION	Dangerous situation, which may cause minor injury if this safety warning is ignored.
NOTICE	Situation, which can cause damage to property if this safety warning is ignored.

RESTRICTION

Used when the following statements depend on certain conditions or are only valid for certain ranges of values.



Used for informational messages or recommended procedures.

More symbols

- ▶ This arrow starts an action step.
- / - Enumerations are marked with dots or indents.
- => Cross reference to another chapter or another page.



Note to further documentation.
www.keb.de/service/downloads



Laws and guidelines

KEB Automation KG confirms with the EC declaration of conformity and the CE mark on the device nameplate that it complies with the essential safety requirements.

The EC declaration of conformity can be downloaded on demand via our website.

Warranty and liability

The warranty and liability on design, material or workmanship for the acquired device is given in the general sales conditions.



Here you will find our general sales conditions.
www.keb.de/terms-and-conditions



Further agreements or specifications require a written confirmation.

Support

Although multiple applications are referenced, not every case has been taking into account. If you require further information or if problems occur which are not referenced in the documentation, you can request the necessary information via the local KEB agency.

The use of our units in the target products is outside of our control and therefore lies exclusively in the area of responsibility of the customer.

The information contained in the technical documentation, as well as any user-specific advice in spoken and written and through tests, are made to best of our knowledge and information about the intended use. However, they are regarded as being only informal and changes are expressly reserved, in particular due to technical changes. This also applies to any violation of industrial property rights of a third-party. Selection of our units in view of their suitability for the intended use must be done generally by the user.

Tests can only be done within the intended end use of the product (application) by the customer. They must be repeated, even if only parts of hardware, software or the unit adjustment are modified.

Copyright

The customer may use the instructions for use as well as further documents or parts from it for internal purposes. Copyrights are with KEB and remain valid in its entirety.

This KEB product or parts thereof may contain third-party software, including free and/or open source software. If applicable, the license terms of this software are contained in the instructions for use. The instructions for use are already available to you, can be downloaded free of charge from the KEB website or can be requested from the respective KEB contact person.

Other wordmarks or/and logos are trademarks (™) or registered trademarks (®) of their respective owners.

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1 Basic Safety Instructions

The Bluetooth-Adapter has been developed and built in accordance with the state of the art and recognised safety regulations. Nevertheless, the function of the machine may cause danger to life and limb of the user or third parties or damage to the machine and other property.

NOTICE



Safety rules and hazards.

- ▶ The safety instructions listed in this manual apply in addition to the basic safety instructions for the drive controller !
- ▶ These can be found in the corresponding instructions for use.
- ▶ All instructions for use are available in the download area of www.keb.de.

Read the safety instructions carefully before using the adapter. Observe all warnings and instructions on the device and in the instructions for use.

- In case of malfunctions, disconnect the adapter from the power source.
- The adapter is supplied via the serial interface at which it is operated.
- In the event of a defect, have the adapter checked by qualified personnel before putting it back into operation.
- Modifications to the adapter will void the manufacturer's responsibility.
- Clean the adapter only with a dry cloth.
- If you move the adapter from a cold to a warm environment, moisture may condense inside the adapter. In this case, wait about one hour before putting the adapter back into operation.

1.1 Target group

This manual is intended for use by qualified electricians only. Qualified electricians as defined in this manual must have the following qualifications:

- Knowledge and understanding of safety instructions.
- Skills for installation and assembly.
- Start-up and operation of the product.
- Understanding of the function in the used machine.
- Recognition of dangers and risks of electrical drive technology.
- Knowledge of *DIN IEC 60364*.
- Knowledge of *EN 60664-1*.
- Knowledge of national safety regulations (e.g. *DGUV Regulation 3*).

1.2 Intended use

The Bluetooth-Adapter is connected to the serial interface of a KEB drive controller and serves to transmit data from this interface via a Bluetooth Low Energy connection to a corresponding remote station. It is intended exclusively for this purpose and may only be used for this purpose. This also includes observing all the information in these instructions for use, especially the safety instructions. Any other use is considered improper and can lead to property damage or personal injury. It also means the immediate loss of the warranty. The manufacturer accepts no liability for damage caused by improper use.

1.3 Disposal

The packaging of the adapter consists exclusively of recyclable materials. Please return them to the "dual system" sorted accordingly. At the end of its service life, the adapter must not be disposed of with normal household waste. It must be taken to a collection point for the recycling of electrical and electronic equipment.

The "dustbin" symbol on the packaging indicates that the materials are recyclable according to their labelling. By reusing, recycling or otherwise recovering old appliances, you are making an important contribution to protecting our environment. Make sure that electronic waste does not end up in household waste, but is disposed of properly.

2 Product Description

The Bluetooth-Adapter is used to connect KEB drive controllers or operators with DIN 66019 interface via Bluetooth connection using the COMBIVIS mobile app or the KEB Elevator app.

The Bluetooth-Adapter is not a standard Bluetooth-Adapter. It can be used exclusively for the communication with KEB devices with the interface specified above. The adapter must be plugged directly onto the interface.

2.1 Intended use

The KEB Bluetooth-Adapter is exclusively for operation with KEB drive controllers or operators. The operation of other electrical consumers is prohibited and can lead to the destruction of the devices.

The used semiconductors and components of KEB Automation KG are developed and dimensioned for the use in industrial products. If the product is used in machines, which work under exceptional conditions or if essential functions, life-supporting measures or an extraordinary safety step must be fulfilled, the necessary reliability and security must be ensured by the machine builder.

Operating our products outside the limits specified in the technical data will result in the loss of any claims for damages.

2.2 Factory setting

The adapter is delivered with the following settings (factory settings):




Settings	Values
Connection interval	8 ms
Slave latency	0
Advertising interval	20 ms
Baud rate (bps)	38400
Data bit	8
Parity	No
Stop bit	1
Hardware flow control	No
Command mode via "COMMAND:"	Yes
Operating mode	Peripheral
Device name	KEB BLE XXXXXX (LAP BT address)
Transmission power	-2 dmb
<i>Table 1: Factory settings</i>	

2.3 Nameplate



3 Hardware

3.1 Overview Bluetooth-Adapter

	Sub-D 9-pole
	DIN 66019 (RS 485) / HSP5 (TTL level)
	Status LED
<p>Figure 2: Overview Bluetooth-Adapter</p>	

3.2 Technical data

Application	Description
Bluetooth	Frequency / max. transmission power: Bluetooth 2402-2480 MHz – 8 dBm / 6.3 mW Empfangsempfindlichkeit -87 dBm
Connections	D-Sub-9 (male) RS485 standard
Voltage supply	Via serial interface
Dimensions	25x35x88mm (HxBxL)
Driver software	FTDI (FT232R) serial USB driver at: (https://www.ftdichip.com/Drivers/VCP.htm) No Bluetooth driver software required
Max. data rate	115 kbps
Ambient conditions	Operating temperature: -20 °C...75 °C Storage temperature: -30 °C...85 °C
Climatic category (EN60721-3-3)	3K3
Potential isolation	Internal potential isolation
Weight in kg	0.3
<p>Table 2: Technical data</p>	

3.3 Terminal assignment

The adapter is supplied with power via the serial interface. Input voltage 5...12V (16V max).

Pin	Designation	=> KEB control board	Properties	Specification
1	FLASH-TERMINAL	In	Programming mode (not for customers)	Reserved (not wired)
2	TxD	Out	Transmission signal	Not wired
3	RxD	In	Receive signal	Not wired
4	RxD-A	In	Receive signal negative	RS485 half and full duplex
5	RxD-B	In	Receive signal positive	
6	5V_DIAG_TERMINAL	Power	Voltage supply	@ F5 Lift operator / S6/F6 control board: 5V \pm 20 %
7	0V_TERMINAL	Power	Reference potential RS232 [RS485] Reference potential Voltage supply	Reference potential
8	TxD-A	Out	Transmission signal negative	RS485 half and full duplex
9	TxD-B	Out	Transmission signal positive	

Table 3: Terminal assignment

3.4 Start-up

The Bluetooth-Adapter is visible to the user via the apps and can be paired with them. After Bluetooth pairing has been carried out with the pairing code shown on the Bluetooth-Adapter, the Bluetooth-Adapter is ready for operation.

After successful connection to the KEB drive controller, the user can access the following functions, among others:

- COMBIVIS mobile app supports the KEB drive controllers COMBIVERT S6 and COMBIVERT F6
- KEB Elevator App supports the KEB drive controllers COMBIVERT F5 with Lift Operator
- Dashboard for monitoring of current status values of the drive
- View of the parameter list and parameter values
- Creating and sending backups of the parameter list
- Contact to the KEB Service

3.5 Status LED



State	LED
Advertising mode (connectable)	Permanently red
Connected (not released)	Flashes blue every 300 ms
Connected (release just given)	Flashes green every 300 ms (for 5 seconds)
Connected (released)	Permanently green
Data transmission (RX/TX active)	Flashes yellow every 300 ms

Table 4: Status LED

4 Software

4.1 COMBIVIS mobile App

Drive controllers perform complex tasks in machines and systems. The scope of functions is constantly growing and requires user-friendly interfaces to be able to manage them. In addition to the PC tool COMBIVIS 6, a simple and convenient operation of KEB drive controllers COMBIVERT F6 und S6 can be carried out via the App COMBIVIS mobile. The KEB app enables wireless communication via a smartphone or tablet.

This means that the status information of the drive can be read out easily via a user-friendly interface in order to use it for process monitoring and error diagnosis. The display and setting of parameters as well as the back-up and restoring of data is also done via App. For quick support by the worldwide KEB service, the contact details of the local contact person can be found via a menu item. COMBIVIS mobile is available free of charge for iOS and Android.

Available on Google Play Store and Apple App Store.



COMBIVIS mobile app in the Google Play Store
<https://play.google.com/store/apps/details?id=de.keb.combivismobile&hl=en>



COMBIVIS mobile App in the Apple App Store
<https://apps.apple.com/app/combivis-mobile/id1399585561>



4.1.1 Functions and features of the COMBIVIS mobile App

- The App supports the drive controllers of the COMBIVERT F6 and S6 series.
- Simple connection via WLAN and Bluetooth ¹⁾
- Diagnosis: Clear dashboard for monitoring current status values of the drive, list of occurred errors, status of the I/Os, operating history
- View of the parameter list and parameter values
- Writing of parameters
- Creating a parameter favorites list
- Creating and sending backups of the parameter list
- Downloading backups to the drive controller
- Offline scope function
- Link to KEB homepage for easy search of product information, technical data, catalogues
- Contact details for the worldwide KEB service (telephone and e-mail)

¹⁾ *The Bluetooth-Adapter described in this manual is required for the Bluetooth connection.*

4.1.2 Applications of the COMBIVIS mobile App

Ambient conditions:

- Industrial environment, production, machinery
- Lift applications/elevator shaft with own KEB Elevator App for COMBIVERT F5 drive controller

4.1.3 Connection setup

The adapter is displayed in the COMBIVIS mobile App if it is not connected to another mobile device. To use the adapter in the App, a key is required, which can be found on the housing. The connection setup is automated in the App and the user is prompted to enter the key in the correct place if necessary. Internally, the procedure is as follows:

The connection setup from the Bluetooth-Adapter to the COMBIVIS mobile App works via the "Just Works" method. This means that no key is required by the Bluetooth system. There is no Bluetooth bonding. Encryption that goes beyond the normal mechanisms of Bluetooth is not necessary.

After Bluetooth pairing is performed, the adapter expects writing of a defined write-only GATT characteristic with a key value. The value can be found on the housing of the adapter. The key is numeric and 6 characters long.

Until the correct key has been written, all other GATT Write Requests are answered with an error and otherwise ignored. If the correct key is not written within 30 seconds, the adapter terminates the Bluetooth connection.

After the correct key has been written, the adapter is ready for normal use. Further write requests on the key characteristic are ignored. This shifts the entry of the key from the operating system to the App.

The adapter does not store any coupling info, the KEB App stores the key for the adapter (no BLE bonding). Data transmission is not encrypted at Bluetooth level.

4.1.4 Application examples of the COMBIVIS mobile App

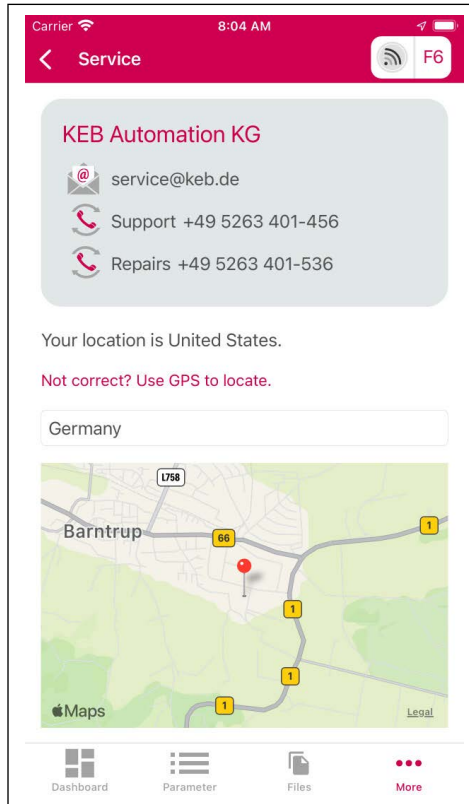


Figure 3: Contact details service



Figure 4: Connection menu

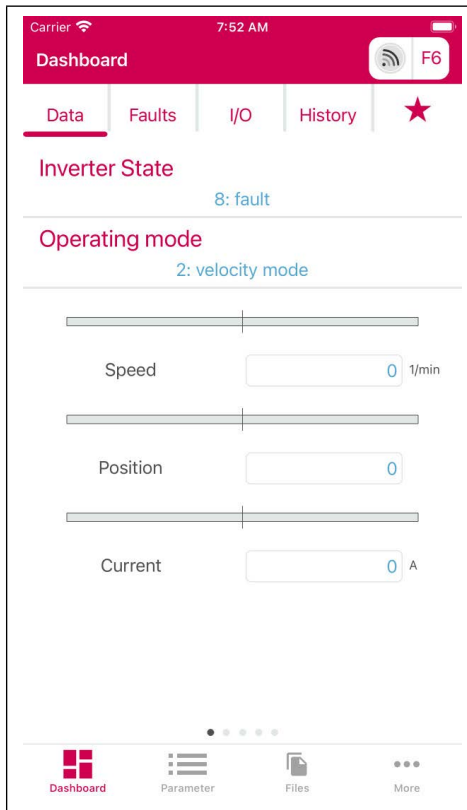


Figure 5: Dashboard: Data

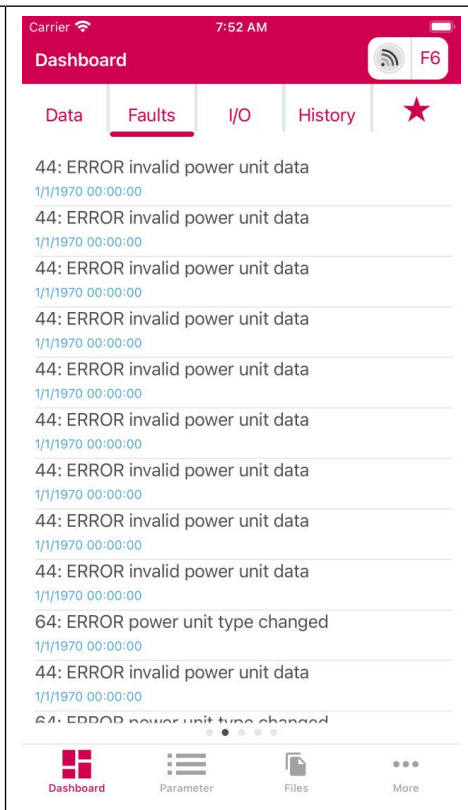


Figure 6: Dashboard: Error

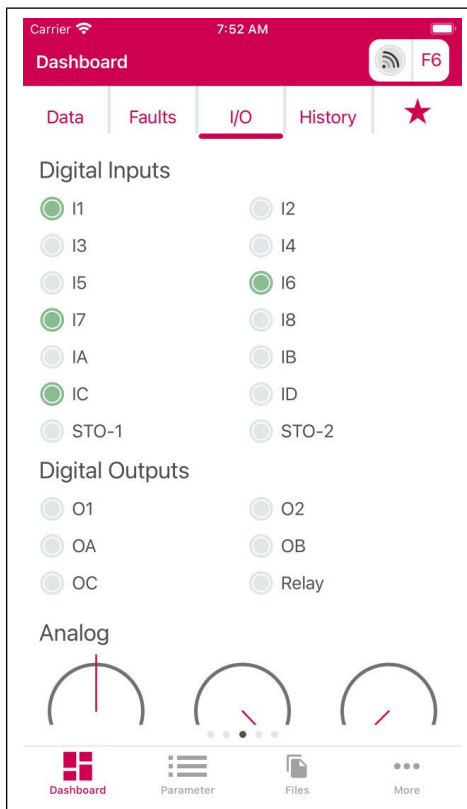


Figure 7: Dashboard: I/O

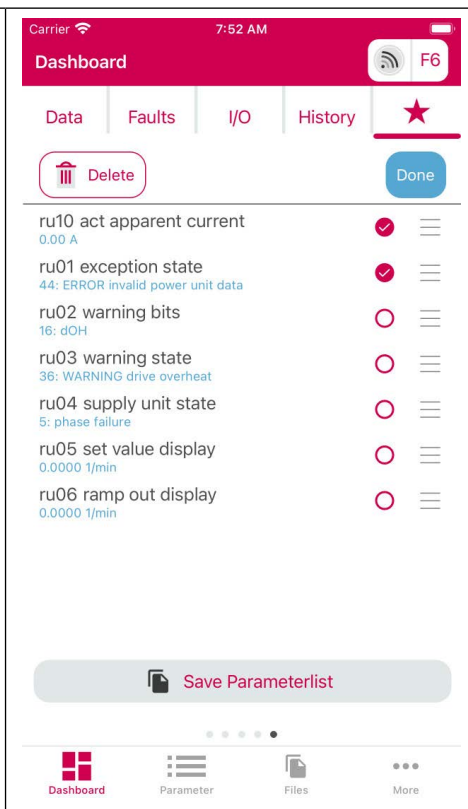


Figure 8: Dashboard: Favourites

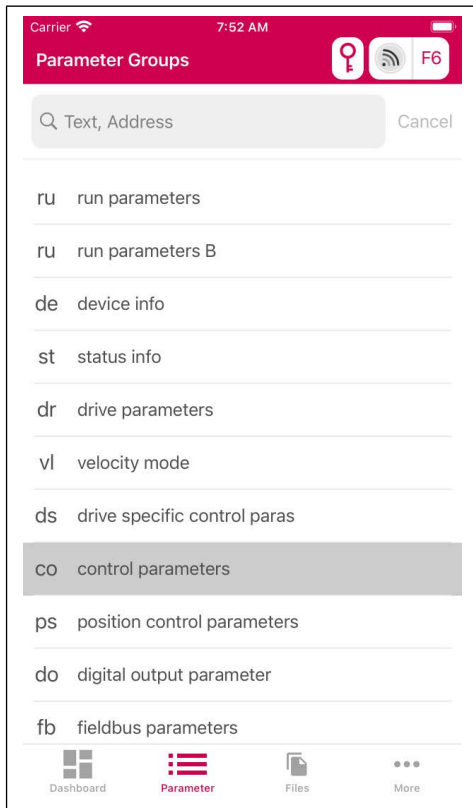


Figure 9: Parameter menu

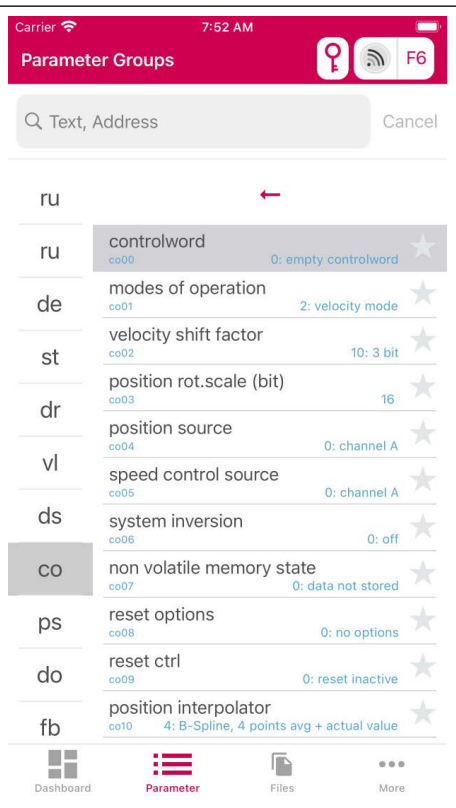


Figure 10: Parameter group

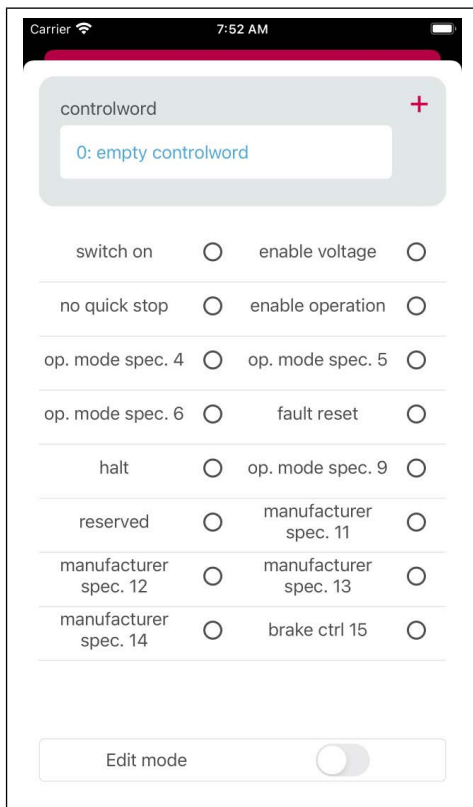


Figure 11: Parameter selected

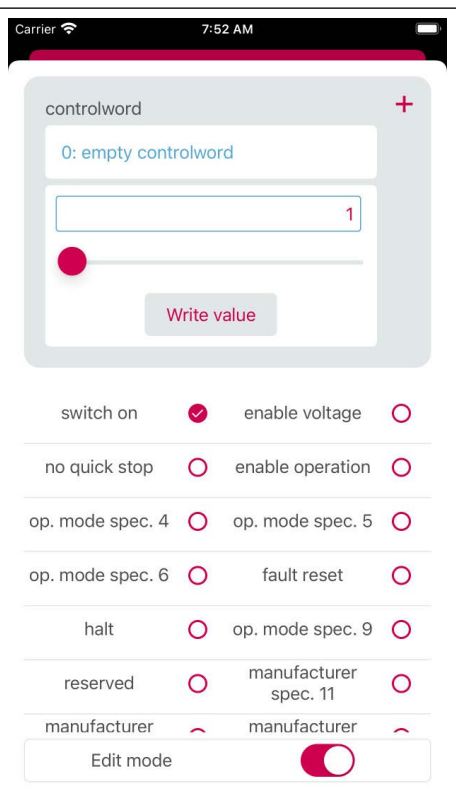


Figure 12: Parameter "Edit mode"

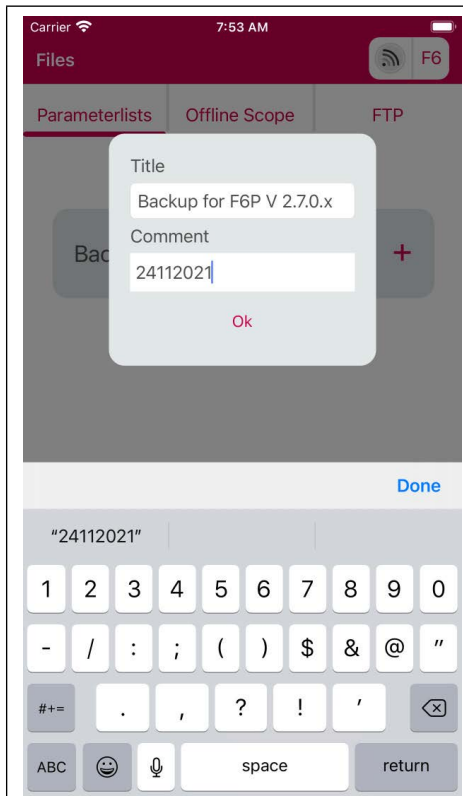


Figure 13: Create Backup file parameter list

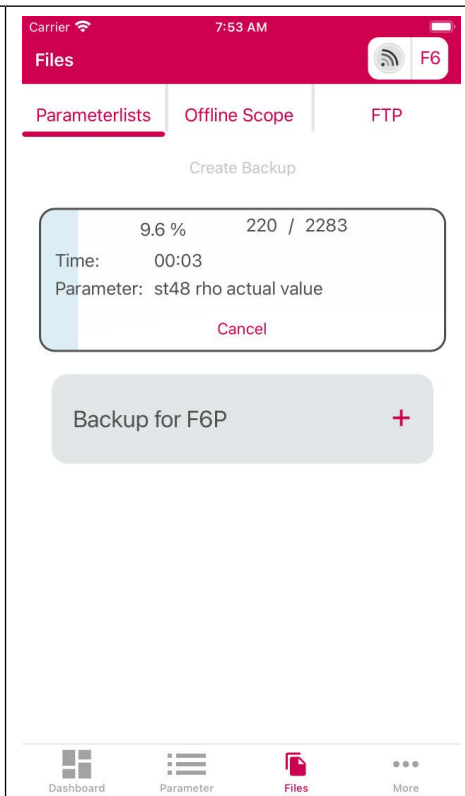


Figure 14: Create Backup 1/2

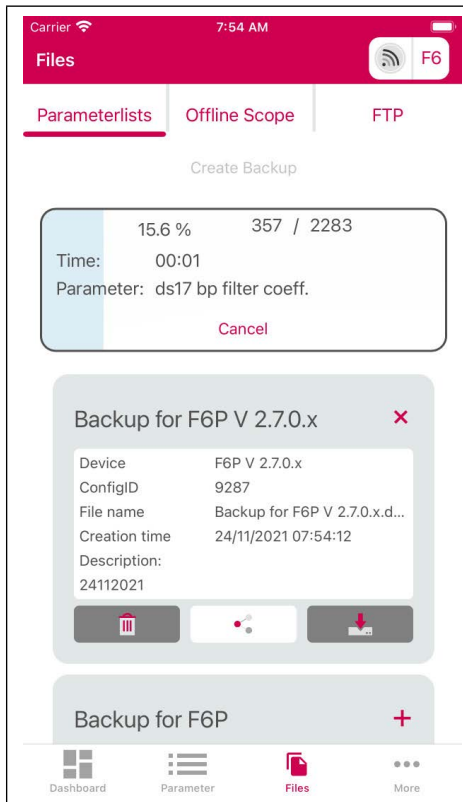


Figure 15: Create Backup 2/2

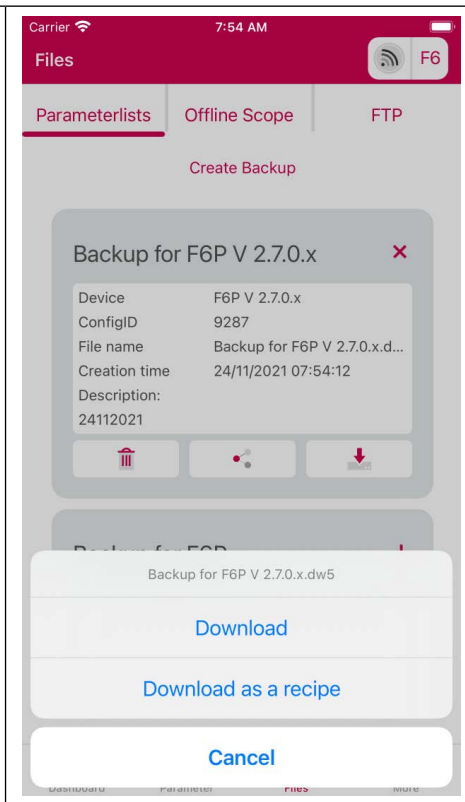


Figure 16: Download Backup

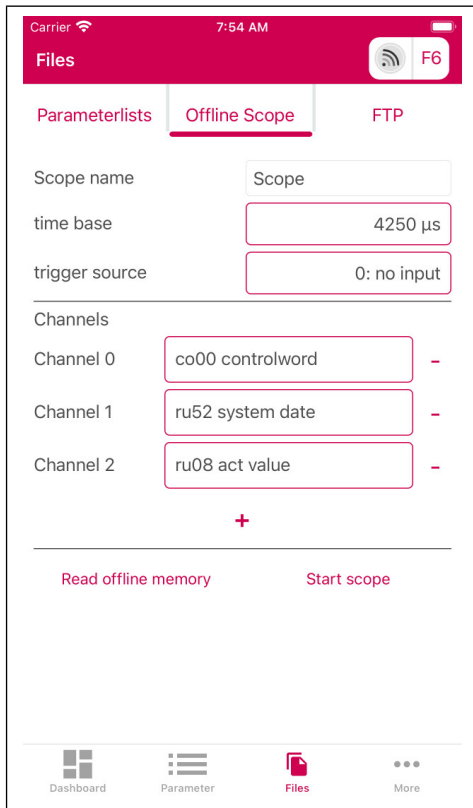


Figure 17: Settings Offline Scope

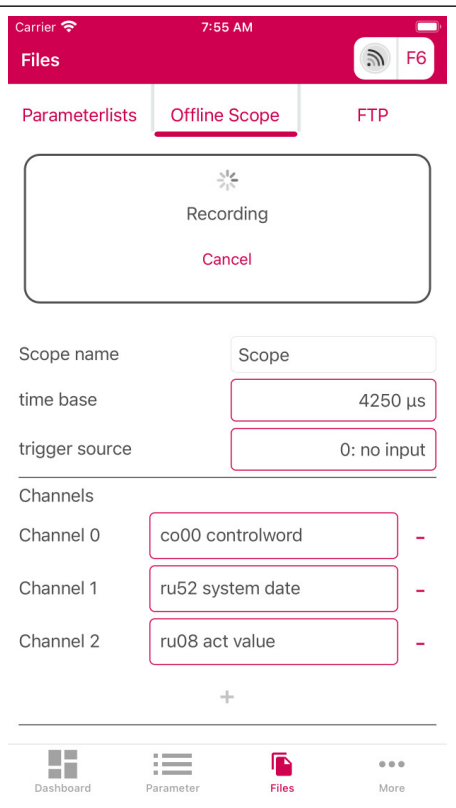


Figure 18: Offline Scope Recording

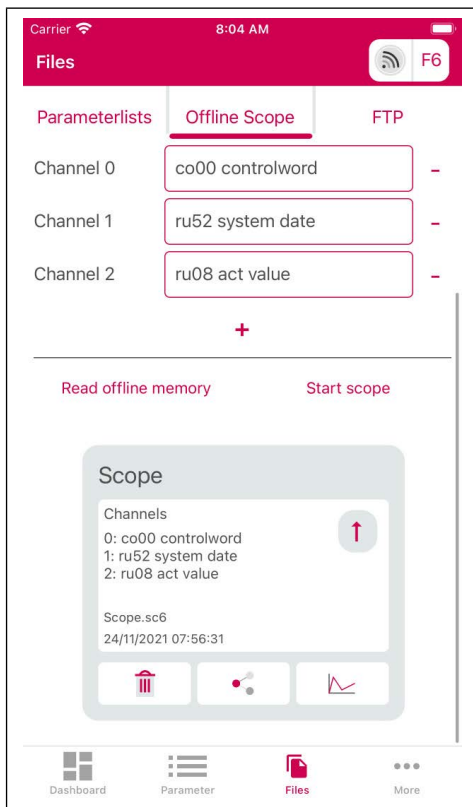


Figure 19: Created File Offline Scope

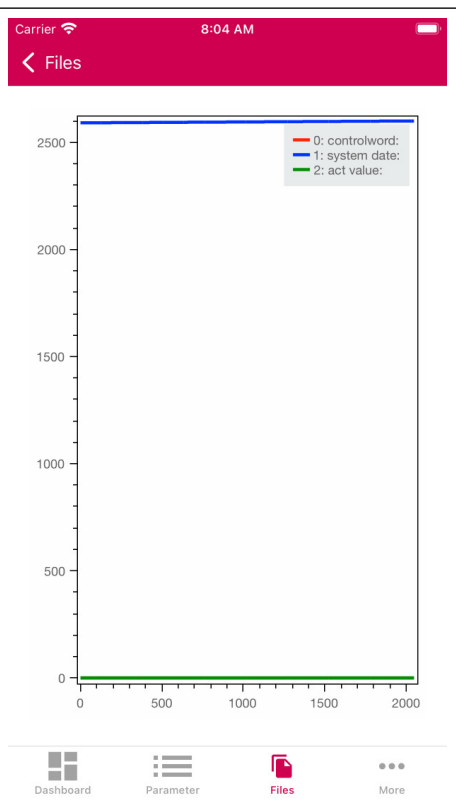


Figure 20: Recorded Data Offline Scope

4.2 KEB Elevator App

Available on Google Play Store and Apple App Store.



KEB Elevator App in the Google Play Store

https://play.google.com/store/apps/details?id=com.kebamerica.elevator_app&hl=en&gl=US



KEB Elevator App in the Apple App Store

<https://apps.apple.com/au/app/keb-elevator/id1479590944?l=en>



5 Certification

5.1 CE-Marking

CE marked Bluetooth-Adapters are have been developed and manufactured in compliance with the regulations of the European directives *RED: 2014/53/EU* and *Hazardous Substances: 2011/65/EU (incl. 2015/863/EU)*.

5.2 Declaration of Conformity

Declaration of Conformity to the RED Directive.

EU DECLARATION OF CONFORMITY

Document No. / month.year: ce_ca_RED-58060-BT-adaptor-a_en.docx / 12.2021

Manufacturer: KEB Automation KG
Südstraße 38
32683 BARNTRUP
Germany

Product type: Part no. 0058060-0060

The above given product is in accordance with the following directives of the European Union

Number: **RED : 2014 / 53 / EU**
Text: Directive on the availability on the market of Radio Equipment.

Number: **Hazardous Substances: 2011 / 65 / EC (incl. 2015 / 863 / EU)**
Text: Directive on the approximation of the laws of the Member States relating on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Responsible: KEB Automation KG
Südstraße 38
32683 BARNTRUP

Place, date Barntrup, 13 December 2021

Issued by:

 i. A. W. Hovestadt / Conformance Officer

 W. Viele / Technical Manager

This declaration certifies the conformity with the named directives, but does not contain any assurance of quality.

The safety instructions, described in the instruction manual are to be followed.

KEB Automation KG, Südstr. 38, D-32683 Barntrup www.keb.de E-Mail: info@keb.de Tel.: +49 5263 401-0 Fax: -116

Figure 21: Declaration of Conformity to the RED Directive

5.3 Grant of Equipment Authorization FCC

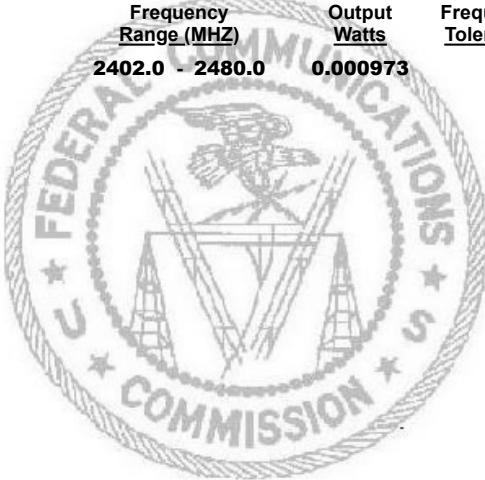

TCB	<p>GRANT OF EQUIPMENT AUTHORIZATION</p> <p>Certification</p> <p>Issued Under the Authority of the Federal Communications Commission</p> <p>By:</p> <p>Bay Area Compliance Laboratory Corp. 1274 Anvilwood Avenue Sunnyvale, CA 94089</p>	TCB								
<p>KEB Automation KG Suedstrasse 38 Barntrup, 32683 Germany</p> <p>Attention: Winfried Hovestadt , Approval engineer</p>		<p>Date of Grant: 11/24/2021 Application Dated: 11/24/2021</p>								
NOT TRANSFERABLE										
<p>EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.</p>										
<p>FCC IDENTIFIER: 2A2AG-KEB0060</p> <p>Name of Grantee: KEB Automation KG</p> <p>Equipment Class: Digital Transmission System</p> <p>Notes: Bluetooth-Adapter</p>										
<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Frequency Range (MHZ)</u></th> <th style="text-align: center;"><u>Output Watts</u></th> <th style="text-align: center;"><u>Frequency Tolerance</u></th> <th style="text-align: center;"><u>Emission Designator</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2402.0 - 2480.0</td> <td style="text-align: center;">0.000973</td> <td></td> <td></td> </tr> </tbody> </table>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>	2402.0 - 2480.0	0.000973		
<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>							
2402.0 - 2480.0	0.000973									
<p>Output power listed is conducted.</p>										

Figure 22: Grant of Equipment Authorization FCC

5.4 RED certification

Type Examination Certificate



BACL
Bay Area Compliance Labs Corp.

USA: TCB, ISED: FCB
Japan: RCB, OFCA: FCB, IMDA: CAB
Notify Body RED Directive 2014/53/EU
Notify Body EMCD Directive 2014/30/EU

DIRECTIVE 2014/53/EU
EU TYPE EXAMINATION CERTIFICATE
NOTIFIED BODY: 1313

Certificate No.: B21111712
Date of Issue: 2021-12-08
Manufacturer: KEB Automation KG
Suedstrasse 38 Bartrup Germany 32683
Trade Name: KEB
Product Designation: 0058060-0060
Product Description: Bluetooth-Adapter

Essential Requirements		Examined Documentation	Results
RED Article 3.1(a)	Safety	Technical documentation & Test report	Conform
RED Article 3.1(a)	Health	Technical documentation & Test report	Conform
RED Article 3.1(b)	EMC	Technical documentation & Test report	Conform
RED Article 3.2	Radio	Technical documentation & Test report	Conform
RED Article 3.3	Delegated Acts	Technical documentation & Test report	Not Applicable


This EU-Type Examination Certificate is issued in according with Annex III, Module B of Council Directive 2014/53/EU of 16 April, 2014 and is only valid in conjunction with the attached Appendixes.

The scope of EU Type Examination only relates to the submitted documentation.


Marking: The product shall be marked with the CE marking as required in the Council Directive 2014/53/EU


Number of Appendixes to this certificate: 1

CE

Authorized by: 

Ivan Cao
Certifier





Bay Area Compliance Laboratories Corp. (BACL)
1274 Anwilwood Avenue, Sunnyvale, CA 94089, USA
Tel: 1 (408) 732-9162 Fax: 1 (408) 732-9164 Web: www.baclcorp.com

Figure 23: RED certification

6 Revision History

Version	Date	Description
00	2021-03	Recreation based on the manual of the USB serial converter 20094859
01	2022-01	Series version

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Tel: +32 2 447 8580
E-Mail: info.benelux@keb.de Internet: www.keb.de

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