



Instruction for use

COMBIVERT F6 Accesories

Operator 2.0

Translation of the original manual

Document 20375480 EN 00

Imprint

KEB Automation KG
Suedstraße 38, D-32683 Bartrup
Germany
Tel: +49 5263 401-0 • Fax: +49 5263 401-116
E-Mail: info@keb.de • URL: <https://www.keb-automation.com>

ma_dr_f6-operator-2-inst-20375480_en
Version 00 • Edition 10/12/2024

Table of contents

1	Introduction	7
1.1	Markings.....	7
1.1.1	Warnings.....	7
1.1.2	Information notes	7
1.1.3	Symbols and markers	8
1.2	Laws and guidelines.....	8
1.3	Warranty and liability.....	8
1.4	Support.....	8
1.5	Copyright.....	8
1.6	Validity of this manual	9
1.7	Target group.....	9
2	General Safety Instructions.....	10
3	Product description	11
3.1	Order data	11
4	Description of the operator	12
4.1	Control card block incl. operator	13
4.2	Operating conditions	13
5	Interfaces	14
5.1	Operator interface X6A	14
5.1.1	Remote control	14
5.2	Diagnostic interfaces.....	14
5.2.1	USB interface X6B.....	14
5.2.2	Ethernet interface X6C	15
6	Assembly of the operator	16
7	Operation of the operator	18
7.1	Control elements.....	18
7.2	Description of the control elements.....	18
7.2.1	Menue bar.....	18
7.2.2	Function keys and function bar	18
7.3	Initial start-up.....	18
7.3.1	Switching on	18
7.3.2	Required files	19
7.4	Non-changeable parameters.....	20
7.5	Changeable parameters.....	21
7.5.1	Changing with "Up" and "Down"	21
7.5.2	Selection of subindices	22
7.5.3	Numeric input.....	23
7.6	Abbreviations in the function toolbar	23
7.7	Inverter parameters.....	24
7.8	Operator parameters.....	25
7.8.1	Operator system (OS).....	26
7.8.2	Settings (Se)	27
7.8.3	Fieldbus (Fb).....	29
7.8.4	Flash file system (FI)	30
7.8.5	Debugging parameters (Db)	31

7.9	Parameter saving	32
7.10	Upload/download of parameters	32
7.11	Work list	33
7.12	File operations.....	33
7.13	FTP local mode	34
7.14	FTP bridge mode	34
7.15	Function test of keyboard and display.....	34
8	Software	35
9	Revision history	36
	Glossary	37
	Index	38

List of figures

Fig. 1	Overview	12
Fig. 2	Control card block incl. operator (front panel)	13
Fig. 3	Operator interface X6A	14
Fig. 4	USB interface X6B	14
Fig. 5	Ethernet interface X6C	15
Fig. 6	Remove the blind cover	16
Fig. 7	Attach the operator.....	17
Fig. 8	Non-changeable parameters.....	20
Fig. 9	Changeable parameters.....	21
Fig. 10	Selection of subindices.....	22

List of tables

Tab. 1	Order data	11
Tab. 2	Revision states	13
Tab. 3	Control elements	18
Tab. 4	Main menu	19
Tab. 5	Operator files.....	19
Tab. 6	Numeric input	23
Tab. 7	Abbreviations in the function toolbar	23
Tab. 8	Inverter parameters.....	24
Tab. 9	Operator parameters.....	25
Tab. 10	Operator parameter groups.....	25
Tab. 11	Parameter saving	32
Tab. 12	Upload/download of parameters	32
Tab. 13	Work list	33
Tab. 14	File operations.....	33
Tab. 15	FTP local mode	34
Tab. 16	FTP bridge mode	34
Tab. 17	Function test of keyboard and display.....	34

1 Introduction

The described devices, accessories, hardware and/or software are products of KEB Automation KG. The enclosed documents correspond to conditions valid at printing. Misprint, mistakes and technical changes reserved.

1.1 Markings

1.1.1 Warnings

Certain operations can cause hazards during the installation, operation or thereafter. There is safety information in the documentation in front of these operations.

Warnings contain signal words for the severity of the hazard, the type and/or source of the hazard, the consequence of non-compliance and the measures to avoid or reduce the hazard.

 **DANGER**



Type and/or source of the hazard.

Leads to death or serious bodily injury if not observed.

- a) Measures to avoid the hazard.
- b) Can be supplemented by an additional danger sign or pictogram.

 **WARNING**



Type and/or source of the hazard.

May cause death or serious injury if not observed.

- a) Measures to avoid the hazard.
- b) Can be supplemented by an additional danger sign or pictogram.

 **CAUTION**



Type and/or source of the hazard.

May cause bodily injury if not observed.

- a) Measures to avoid the hazard.
- b) Can be supplemented by an additional danger sign or pictogram.

NOTICE



Type and/or source of the hazard.

Can cause damage to property if not observed.

- a) Measures to avoid the hazard.
- b) Can be supplemented by an additional danger sign or pictogram.

1.1.2 Information notes



Indicates to the user a special condition, prerequisite, scope or simplification.



This is a reference to further documentation. The barcode is for smartphones, the following link is for online users or for typing.

 <https://www.keb-automation.com/search>



Notes on conformity for use in the North American or Canadian market.

1.1.3 Symbols and markers

✓	Condition
a)	Action step
⇒	Result or intermediate result
(≡▶ Reference ▶ 8])	Reference to a chapter, table or picture with page reference
ru21	Parameter name or parameter index
(🌐▶)	Hyperlink
<Strg>	Control code
COMBIVERT	Lexicon entry

1.2 Laws and guidelines

KEB Automation KG confirms with the CE mark and the EU declaration of conformity that our device complies with the essential safety requirements.

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

1.3 Warranty and liability

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



Here you will find our general sales conditions.

(🌐▶ <https://www.keb-automation.com/terms-conditions>)



Further agreements or specifications require a written confirmation.

1.4 Support

Through multiple applications, not every possible case has been taken into account. If you require further information or if problems occur which are not treated detailed in the documentation, you can request the necessary information via the local KEB Automation KG agency.

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

The information contained in the technical documentation, as well as any support provided verbally, written or through testing, is made to the best of our knowledge and information regarding intended use of KEB products. However, due to technical changes, any information provided is considered non-binding and is subject to change. This also applies to any violation of industrial property rights of a third-party.

Selection of KEB units in view of their suitability for the intended use must be done by the user.

Tests can only be carried out within the scope of 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.

1.5 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 Automation KG and remain valid in its entirety.

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

1.6 Validity of this manual

These instructions for use are valid for the accessories listed in the product description. These instructions for use

- contains only supplementary safety instructions.
- is only valid in conjunction with the device suitable for the accessory and its instructions for use.

1.7 Target group

The instructions for use is determined exclusively for electrical personnel. Electrical personnel for the purpose of this instruction manual must have the following qualifications:

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

2 General Safety Instructions

The products are developed and built according to the state of the art and recognized safety rules. Nevertheless, their use may create dangers to life and limb of the user or third parties or damage to the machine and other material property.

The following safety instructions have been created by the manufacturer for the area of electric drive technology. They can be supplemented by local, country- or application-specific safety instructions. This list is not exhaustive. Non-observance of the safety instructions by the customer, user or other third party leads to the loss of all resulting claims against the manufacturer.

NOTICE

Hazards and risks through ignorance!

- a) Read the instructions for use.
 - b) Observe the safety and warning instructions.
 - c) Ask if something is unclear.
-

3 Product description

The device series F6 is a series of single axis drive controllers. These devices are equipped with a diagnostic interface (description see F6 control boards). The F6 operators can be connected to this interface.

These operators can perform the following tasks:

- Providing a user surface (keyboard and display)
- Providing the diagnostic interfaces (USB and Ethernet)

The operators can not perform the following tasks:

- Providing of interfaces for permanent installation (fieldbuses / IO / etc.)



F6-A control boards

( https://data.keb.de/fileadmin/media/Manuals/dr/ma_dr_f6-cu-a-inst-20118593_en.pdf)



F6-K control boards

( https://data.keb.de/fileadmin/media/Manuals/dr/ma_dr_f6-cu-k-inst-20144795_en.pdf)



F6-P control boards

( https://data.keb.de/fileadmin/media/Manuals/dr/ma_dr_f6-cu-p-inst-20182705_en.pdf)



3.1 Order data

Material number	Version
00F6P00-1001	Operator without interface
00F6P00-4001	Operator with Ethernet and USB interface

Tab. 1: Order data

4 Description of the operator



Fig. 1: Overview

1 Locking lever	2 LC display 160 x 160 pixel, 32 levels of grey
3 Control panel	4 Interface to the drive controller (X6A)
5 Nameplate	6 Version without interface
7 Variant with USB-B (X6B) and Ethernet interface (X6C)	

4.1 Control card block incl. operator



Fig. 2: Control card block incl. operator (front panel)

4.2 Operating conditions

The operating conditions correspond to those of the used COMBIVERT F6 drive controller and can be found in the corresponding instructions for use.

NOTICE

Avoidance of faulty shutdowns

- When the operator is plugged into an operational device (supply voltage and 24 V voltage switched on), the message "42 exception state: ERROR power unit SACB comm." can be displayed. The error is reset by switching the 24 V voltage of the drive controller off and on again.

This behaviour can occur for devices of the F6 series with housing 6, 7, 8 and 9. From the revision levels listed in the table, an operator can be plugged in without regard to the operating state.

Series	Housing	From revision ¹⁾
COMBIVERT F6	6	2K
	7	2V
	8	1K
	9	0P

Tab. 2: Revision states

- The information on the revision status can be found on the nameplate of the drive controller.

5 Interfaces

5.1 Operator interface X6A

The interface fulfills the following functions:

- Communication with the F6 device (protocol DIN 66019II / KebFTP)
- Voltage supply of the operator

A combined RS485 interface is used as interface, which is provided as 9-pole D-Sub plug connector.

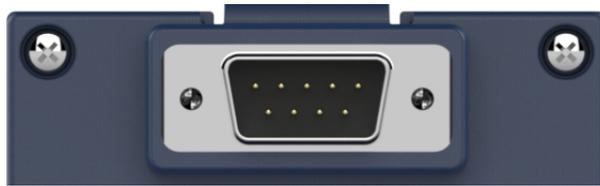


Fig. 3: Operator interface X6A

5.1.1 Remote control

NOTICE

Malfunctions in case of own manufacture of the cable!

- When manufacturing an extension cable yourself, the assignment must be made without pins 1, 2 and 3.
- Connections of pins 4, 5, 6, 7, 8, 9 and the shield are sufficient.
- The maximum length is 10 meters (depending on the cable cross-section).

5.2 Diagnostic interfaces

5.2.1 USB interface X6B



Fig. 4: USB interface X6B

The USB interface emulates the diagnostic interface on the F6 device. DIN66019II and KebFTP are used as protocol via a virtual COM port. The USB interface is electrically isolated. Additionally it can be accessed to parameters / objects of the operator. The operator responds to the found node address of the drive controller (see operator parameter OS05). In Ftp local mode, the file system of the operator can be accessed, in Ftp bridge mode, the files of the drive controller can be accessed.

5.2.2 Ethernet interface X6C



Fig. 5: Ethernet interface X6C

The USB interface emulates the diagnostic interface on the F6 device. DIN66019II is used as protocol via TCP or UDP on port 8000 and KebFtp on UDP port 8002. Additionally it can be accessed to parameters / objects of the operator. The operator responds to the found node address(es) of the drive controller (see operator parameter OS05). The file system of the operator is always available, but the files of the drive controller are accessed in Ftp bridge mode.

6 Assembly of the operator

Exemplary assembly on a COMBIVERT F6 housing 2.

- ✓ Remove the blind cover.
- a) Loosen the blind cover by pressing the locking lever and remove it.



Fig. 6: Remove the blind cover

✓ Inserting the operator

a) Attach the F6 operator at the lower edge and tilt it into the cutout.

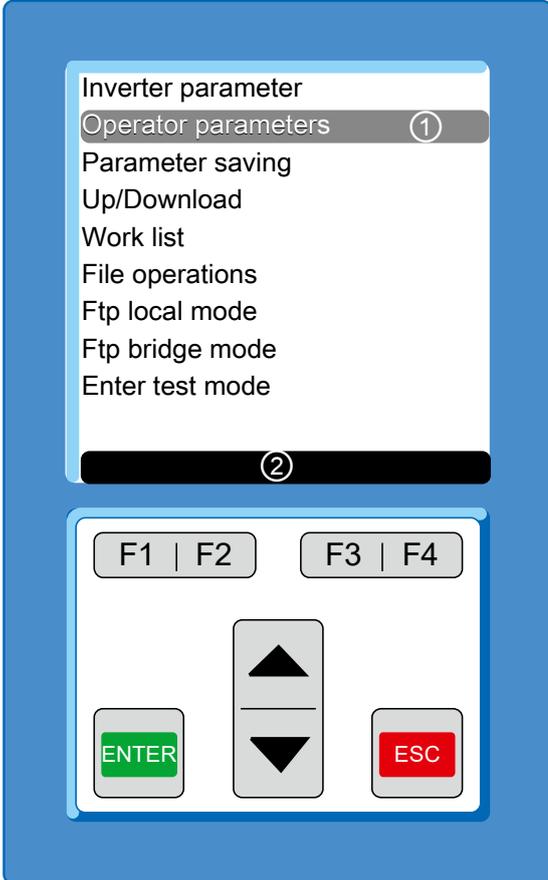
b) Engage the locking lever.



Fig. 7: Attach the operator

7 Operation of the operator

7.1 Control elements

Operator control panel	Name	Function
	①	Menu bar
	②	Function bar
	F1	Function key 1
	F2	Function key 2
	F3	Function key 3
	F4	Function key 4
	▲	Menu bar to top or increase parameter value "Up"
	▼	Menu bar to bottom or decrease parameter value "Down"
	ENTER	Select / Confirm
	ESC	Return to the next menu level up

Tab. 3: Control elements

7.2 Description of the control elements

7.2.1 Menu bar

The menu bar displays the actual selection in the menu. It can be shifted with the keys ▲ and ▼. Press ENTER to change to the subordinate operating level, and ESC to change back to the next higher operating level.

7.2.2 Function keys and function bar

The function keys F1...F4 are variable assigned depending on the menu item. The function bar displays the actual assignment of the function keys F1...F4.

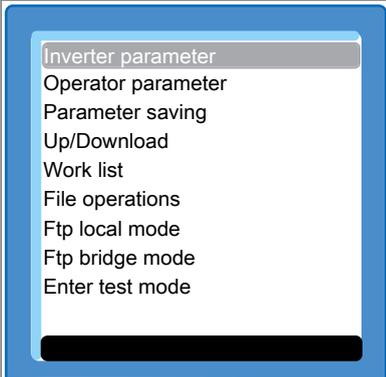
7.3 Initial start-up

7.3.1 Switching on

The operator is supplied by the drive controller. The operator switches on and off with the drive controller. After switching on the operator searches automatically for the connected drive controller, also in case of communication failure to the drive controller. The actual checked node address is displayed on the bottom line in the start image and main menu. This node number can also be read out in the operator parameter OS05. The negotiated baud rate is displayed in the operator parameter Db13.

When accessing via the Ethernet or USB interface, the operator responds to this node address as well as to OS05+100 and OS05+200. By specifically setting the parameters fb13 and fb15, up to 3 logical devices can be addressed inside the drive controller.

 During the node search, the responded node address changes constantly, therefore operator parameters cannot be accessed either.

	<p>The main menu is the uppermost menu level. With the keys ▲ and ▼ you can select the desired submenu. Press ENTER to jump to the selected submenu.</p>
---	--

Tab. 4: Main menu

7.3.2 Required files

The operator requires the following files in its flash memory for correct operation:

File	Feature
language_f6.dat	Contains the operator texts for the operator in all languages.
paras.blb	Contains the parameter descriptions of all F6 operators as well as some F6 drive controllers.
xxxxx.blb	Files to install additional drive controller types. Can be read out directly by some drive controllers.

Tab. 5: Operator files

The information required for correct operation is normally read out automatically from the drive controller by the operator.

 If any of the files listed are missing for any reason, please contact KEB.

For independent installation of the files (⇒ [FTP local mode](#) [▶ 34]).

7.4 Non-changeable parameters



The parameter groups are dependent on the drive controller type.

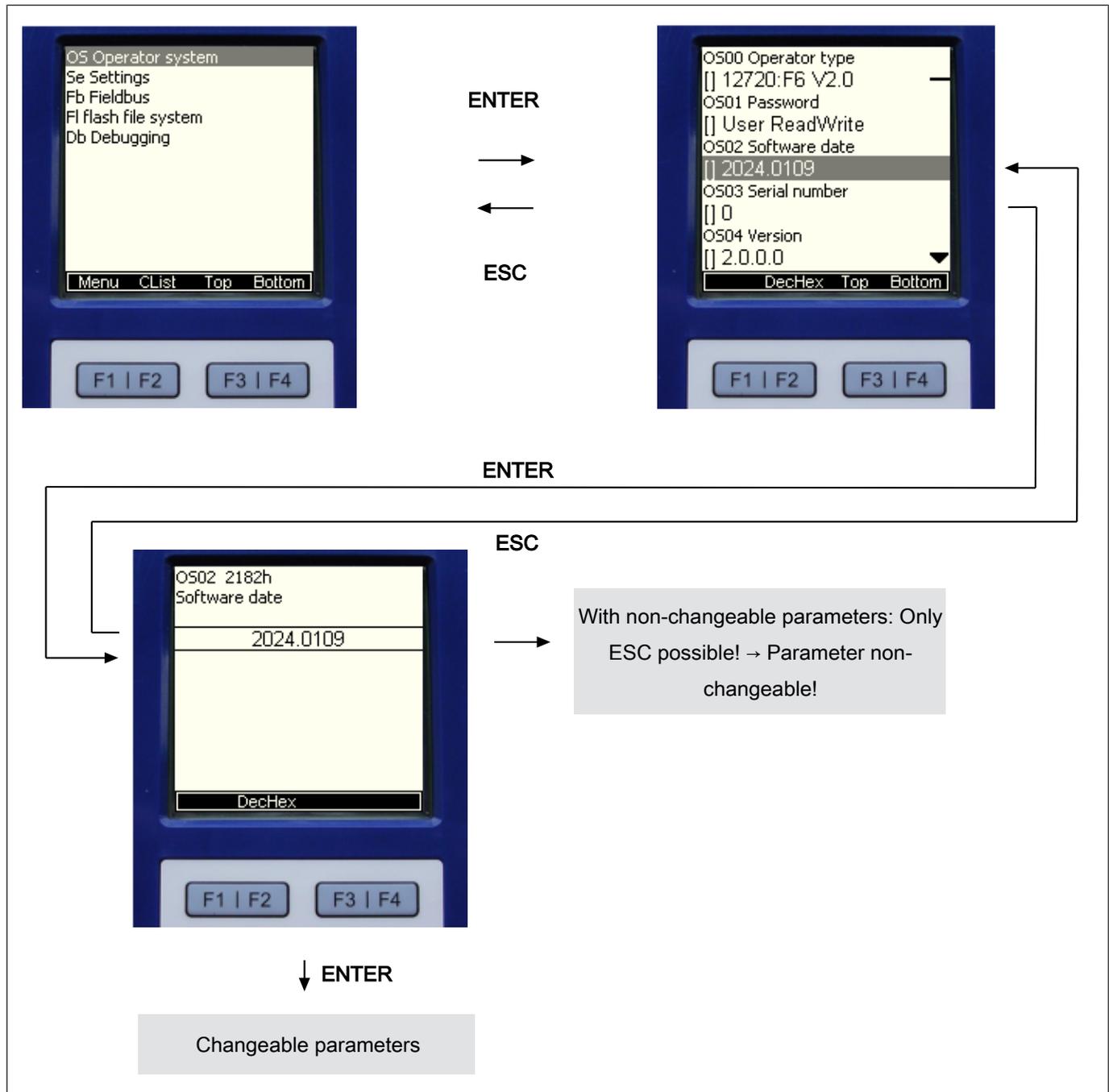


Fig. 8: Non-changeable parameters

(=> [Changeable parameters](#) |> 21])

7.5 Changeable parameters

7.5.1 Changing with "Up" and "Down"

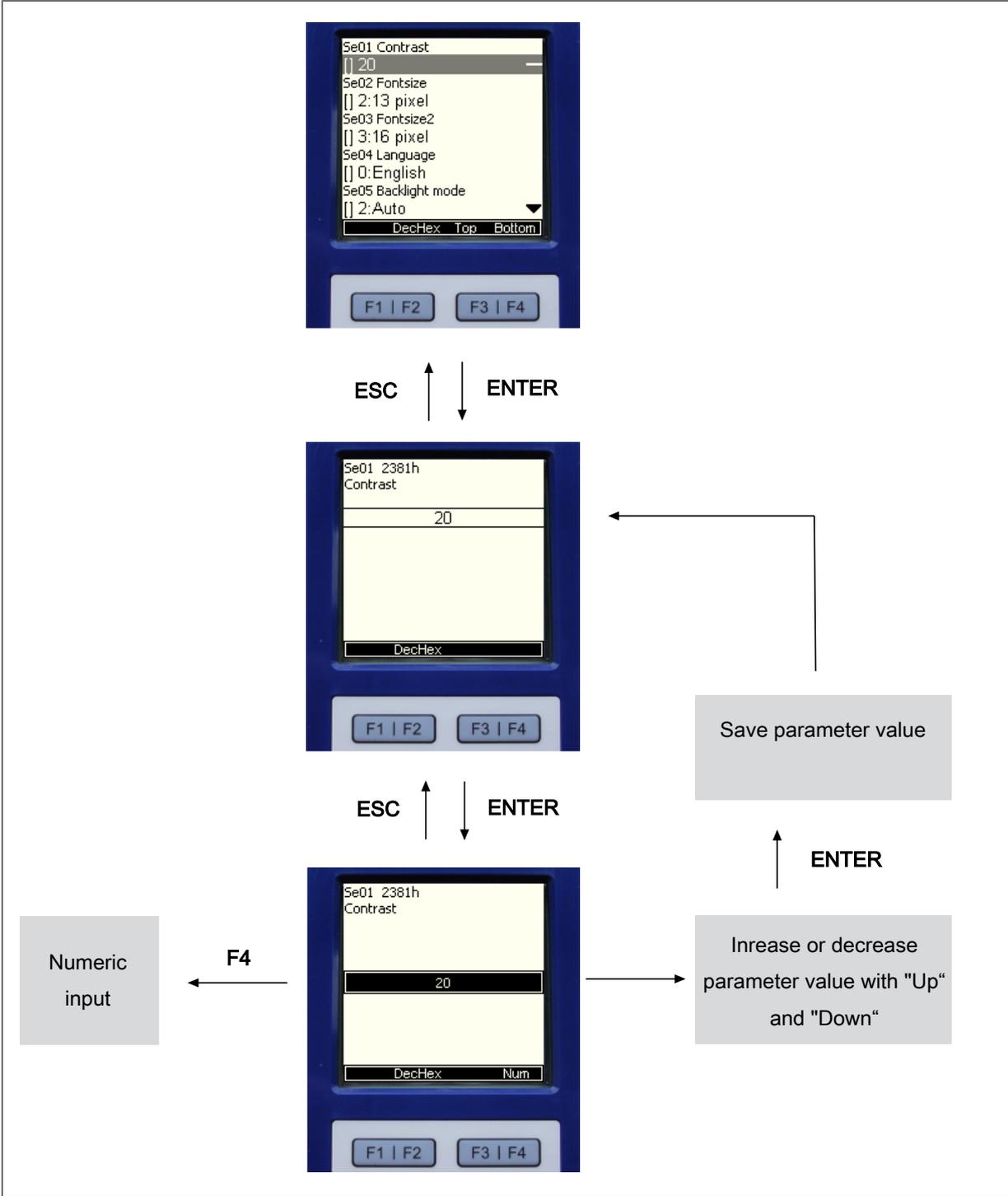


Fig. 9: Changeable parameters

(≡ ► [Numeric input](#) ► 23)

7.5.2 Selection of subindices

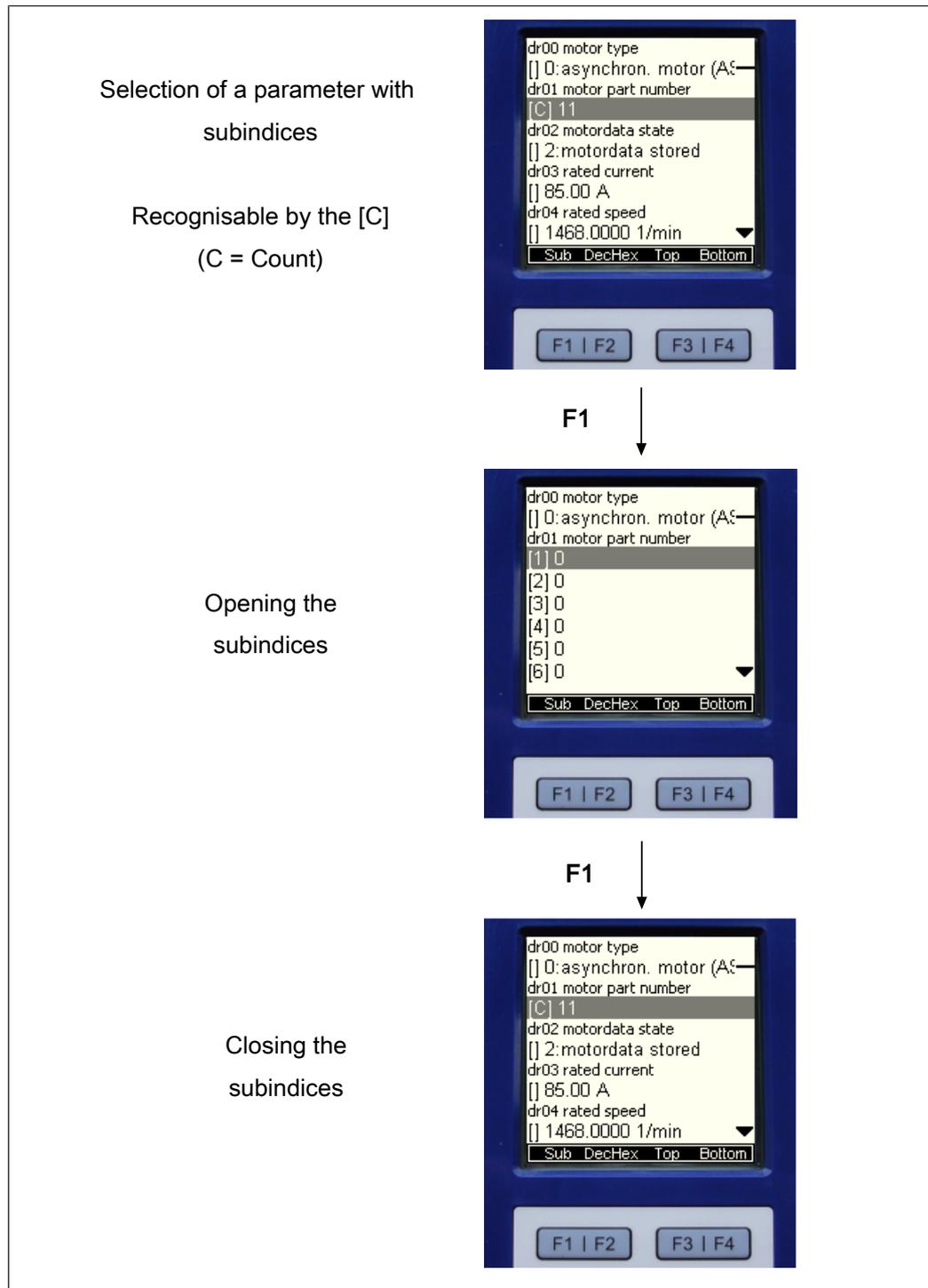
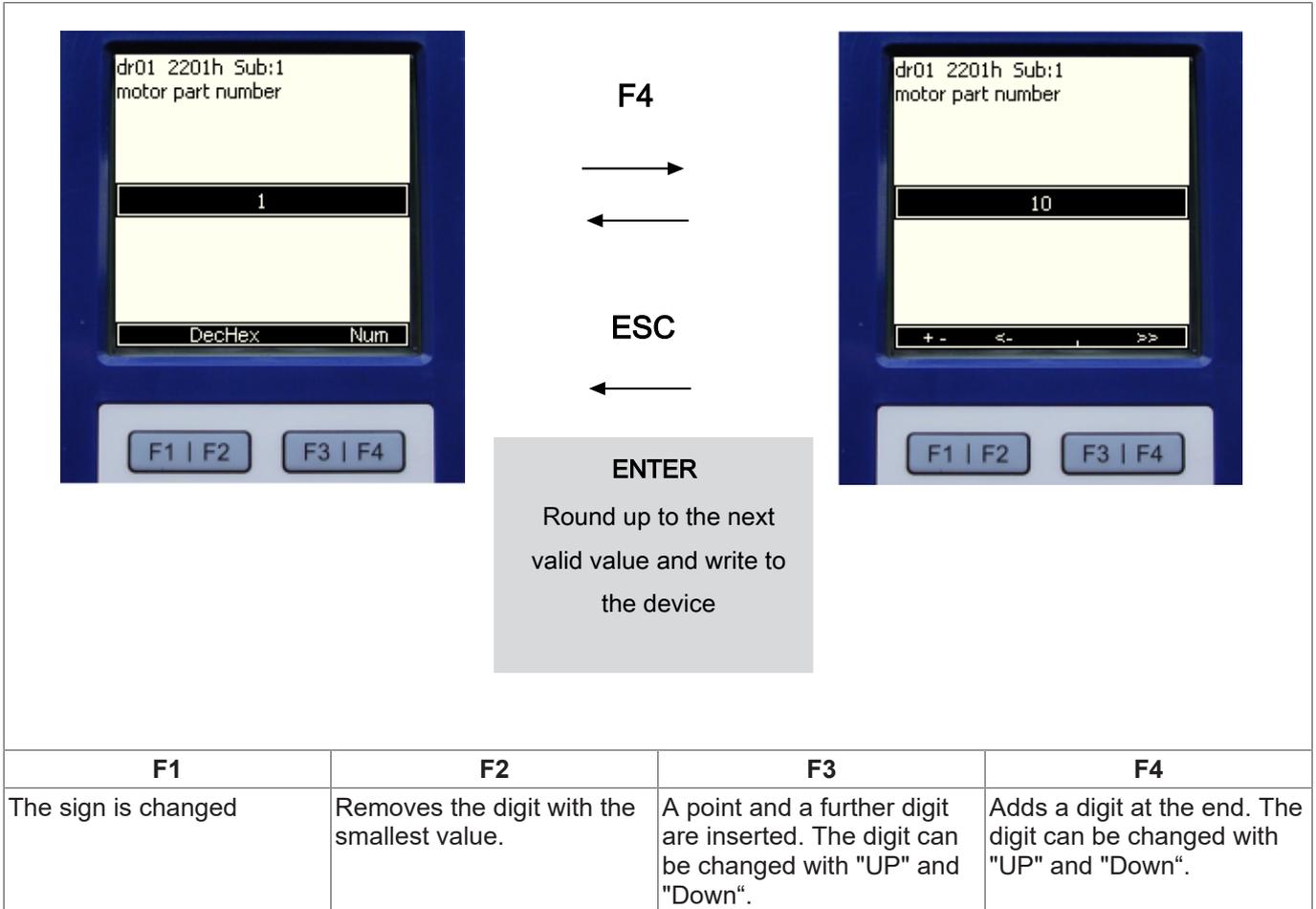


Fig. 10: Selection of subindices

7.5.3 Numeric input



Tab. 6: Numeric input



Observe at F3.

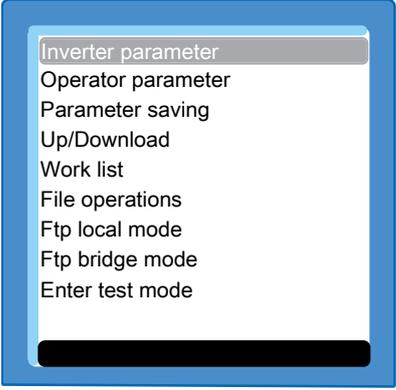
Only the first comma is respected!

7.6 Abbreviations in the function toolbar

Abbreviation	Meaning
Menu	Jumps to the main menu
CList	Generate a full backup with free selectable name.
Up	Scrolls up in the menu.
Down	Scrolls down in the menu.
DecHex	Conversion of numeric values from decimal to hexadecimal.
Num	Changes to the numerical input.
Sub	Displays additional subindices.
+, -	Changes the sign to + or -.
<-	The digit with the lowest value is removed.
,	Adds a comma and another digit.
>>	Adds another digit at the end.

Tab. 7: Abbreviations in the function toolbar

7.7 Inverter parameters

	<p>The menu item inverter parameter includes all available drive controller parameters on the control board. They are function-related divided into groups. They are displayed on the operator via the internal bus.</p> <p>For the display of the drive controller parameters, the operator requires the appropriate configuration file, which must be stored as *.blb file in the flash. Alternatively, a similar type can be manually selected from paras.blb.</p>
---	---

Tab. 8: Inverter parameters



The description of the drive controller parameters can be taken from the programming manual F6.



Further information in the download area of (www.keb-automation.com) under the search term "([F6 Programming manual](#))".

7.8 Operator parameters

	<p>The operator parameters display the parameter groups of the operator.</p> <p>Select the operator parameters with the keys ▲ and ▼ and confirm with ENTER.</p>
--	--

Tab. 9: Operator parameters

	<p>The operator parameters are divided into five groups:</p> <ul style="list-style-type: none"> • OS - Operator system; Display of system parameters • Se - Settings; Display and setting of the basic settings • Fb - Fieldbus parameters (only Ethernet); Display of the fieldbus parameters • FI - Flash file system; Display of the flash-memory usage • Db - Debugging; Special debugging parameters for the manufacturer test <p>Select the corresponding parameter group with the keys ▲ and ▼.</p> <p>ENTER switches to the selected submenu.</p>
--	--

Tab. 10: Operator parameter groups

7.8.1 Operator system (OS)



Only the meanings of the parameter values are described in the following. Value ranges, data length and data type; Access mode and the default values can be taken from COMBIVIS.

OS00	Operator type	Parameter address	0x2180
Value	Meaning		
e.g. 12720	Display of the operator type (configuration number)		
	12720 : F6 V2.0		

OS01	Password	Parameter address	0x2181
Value	Meaning		
-1...-9	Displays the actual password level of the operator, independent of the drive controller. Is used to enter the operator password level and is also the actual file level:		
	550 = user read-only, file level = 5, parameter value = -6		
	660 = usser read/write, file level = 6, parameter value = -7		
	Supervisor, file level = 7, parameter value = -8		

OS02	Software date	Parameter address	0x2182
Value	Meaning		
0.0000...	Software date of the operator.		
9999.1231	Display of the year before the point, month and day behind.		
	2014.0513 means 13.05.2014.		

OS03	Serial number	Parameter address	0x2183
Value	Meaning		
	Displays the serial number of the operator.		

OS04	Software version	Parameter address	0x2184
Value	Meaning		
	Displays the software version of the operator.		

OS05	Node address	Parameter address	0x2185
Value	Meaning		
0...239	Displays the actual node address of the drive controller.		

7.8.2 Settings (Se)

Se01	Contrast	Parameter address	0x2381
Value	Meaning		
-50...50	Sets the contrast of the LCD display. Press ENTER to change into the input mode in order to change the parameter value. Use the keys ▲ and ▼ to adjust the contrast in a range of -50...50.		

Se02	Font size	Parameter address	0x2382
Value	Meaning		
0...4	The font size determines the complete menu view in the display. Press ENTER to change into the input mode in order to change the parameter value. Use the keys ▲ and ▼ to choose one of the following font sizes: 8, 10, 13, 16, 24 pixel ENTER selects the desired font size.		

Se03	Font size 2	Parameter address	0x2383
Value	Meaning		
0...4	Determines the fontsize of the parameter values.		

Se04	Language	Parameter address	0x2384
Value	Meaning		
0...7	Use the keys ▲ and ▼ to choose one of the following languages: 0: English 1: German 2: American 3: Francais 4: Italiano 5: Russian 6: Español 7: Custom ENTER selects the desired language and returns to the submenu.		

Se05	Illumination mode	Parameter address	0x2385
Value	Meaning		
0...2	<p>The menu item determines the behavior of the backlight of the LC display. Press ENTER to change into the input mode in order to change the parameter value. Use the keys ▲ and ▼ to choose one of the following settings:</p> <p>0: off → generally off 1: on → generally on 2: Automatically → on when pressing a key; off after 30 seconds if no key is pressed</p>		

Se06	Current mode	Parameter address	0x2386
Value	Meaning		
0...9	Displays or sets the current mode on the operator. Can also be used to switch to a desired mode.		

Se07	Startup mode	Parameter address	0x2387
Value	Meaning		
0...9	<p>The startup mode determines the display during switch on.</p> <ul style="list-style-type: none"> • 0: Main menu • 1: Inverter parameter • 2: Operator parameter • 3: Parameter saving • 4: Download mode • 5: Worklist mode • 6: File operations • 7: Ftp local mode • 8: Ftp bridge mode • 9: Test mode 		

Se08	Parameter reset	Parameter address	0x2388
Value	Meaning		
1	1: Resets all operator parameters to factory setting.		

Se09	Ftp timeout	Parameter address	0x2389
Value	Meaning		
0...255	<p>Sets the time (in seconds) after which the Ftp local mode or Ftp bridge mode is exited without external communication.</p> <ul style="list-style-type: none"> • 0: Off, Ftp mode is not exited automatically 		

7.8.3 Fieldbus (Fb)

Fb00	MAC address	Parameter address	0x2280
Value	Meaning		
	The MAC address (Media Access Control) is formed of 6 byte. Only the lowest 4 bytes are displayed here "FAxxxxx". This address is assigned by the manufacturer and cannot be changed.		

Fb01	IP address	Parameter address	0x2281
Value	Meaning		
	The IP address consists of 4 bytes and is the clear identification of one Internet participant. In case of doubt the network administrator gives the address to be adjusted.		

Fb02	Active IP address	Parameter address	0x2282
Value	Meaning		
	Displays the value of the currently used IP address.		

Fb05	IP error counter	Parameter address	0x2285
Value	Meaning		
	Serves for the diagnosis of the IP protocol stack.		

Fb06	TCP connections	Parameter address	0x2286
Value	Meaning		
	This parameter displays the number of active TCP/IP connections.		

Fb07	UDP connections	Parameter address	0x2287
Value	Meaning		
	This parameter displays the number of active UDP connections.		

Fb09	Data port password	Parameter address	0x2289
Value	Meaning		
0...2147483647	This parameter defines the write protection password for the access via port 8000 (Ethernet). If the password is active first this password must be entered again for a write access. Error message "operation not possible" is displayed in case of locked data port write access. Value 0 switches off the write protection password (only possible if the active password is entered correctly). Read: -1: Inactive -2: Active Write: 0: Delete password > 0: Password set / enter		



If for 30 seconds there is no communication with the operator, the password must be entered again.

Fb10	DHCP server	Parameter address	0x228A
Value	Meaning		
0...1	<p>Serves for switching off and on of the DHCP server functionality.</p> <p>BootP and DHCP requests are answered delayed in activated state. The following restrictions become valid because the operator has no information about available IP addresses in the network:</p> <p>The DHCP server is only provided for operation with cross/patch cable to a PC/notebook, in order to assign an IP address to the PC/notebook if necessary. Thus an end-to-end operation without manual intervention and without knowledge of the IP protocol is possible.</p> <p>All requests will be collected. Only when 3 identical requests are recognised, a corresponding response is transmitted. Thus in standard network operation the standard DHCP servers can assign a valid IP address first, before the operator assigns it.</p> <p>The IP address of the operator increased by 1 is preset as IP address. If the low byte of the IP address is higher than 254, the IP address of the operator decreased by 1 is preset.</p> <p>0: Inactive 1: Active</p>		

Fb14	Connection state	Parameter address	0x228E
Value	Meaning		
	Displays an Ethernet connection as well as speed and duplex mode.		

Fb15	Location	Parameter address	0x228F
Value	Meaning		
	Contains a user-specific adjustable text for a machine position, for example.		

7.8.4 Flash file system (FI)

FI00	Max. bytes	Parameter address	0x2480
Value	Meaning		
	Displays the maximum number of possible bytes.		

FI01	Max. files	Parameter address	0x2481
Value	Meaning		
	Displays the maximum number of possible files.		

FI02	Used bytes	Parameter address	0x2482
Value	Meaning		
	Displays the number of the used bytes.		

FI03	Used files	Parameter address	0x2483
Value	Meaning		
	Displays the number of the used files.		

FI04	Deleted bytes	Parameter address	0x2484
Value	Meaning		
	Displays the number of the deleted bytes.		

FI05	Deleted files	Parameter address	0x2485
Value	Meaning		
	Displays the number of the deleted files.		

FI06	Free bytes	Parameter address	0x2486
Value	Meaning		
	Displays the number of free bytes.		

FI07	Flash function	Parameter address	0x2487
Value	Meaning		
0...256	Displays the state of the flash system and if necessary, is used to format the memory (value = 660 "user read/write" - password required).		

NOTICE
Loss of important system files!

- a) Formatting is normally never required and leads to the loss of important system files, which must be transferred again.

7.8.5 Debugging parameters (Db)

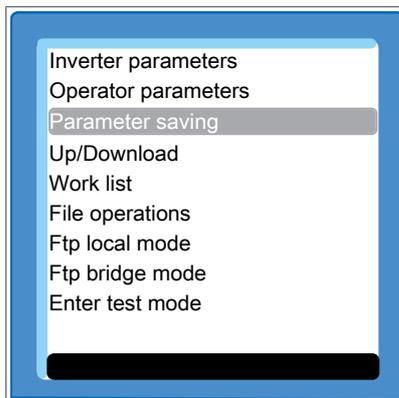
The Db parameters Db00 to Db11 will only be used for internal testing purposes.

Db12	Inverter communication error	Parameter address	0x268C
Value	Meaning		
	Displays the number of incorrect communications with the drive controller.		

Db13	Inverter baud rate	Parameter address	0x268D
Value	Meaning		
	Displays the negotiated baud rate with the drive controller.		

Db14	Node search area	Parameter address	0x268E
Value	Meaning		
0...2	Sets the search range for the inverter node: <ul style="list-style-type: none"> • 0: 0..99 • 1: 100..199 • 2: 200..239 The operator searches for a drive controller only in the set range. Value 0 is always active after switching on.		

7.9 Parameter saving



ENTER opens the submenu for parameter saving.

Save parameter (Upload) = F3

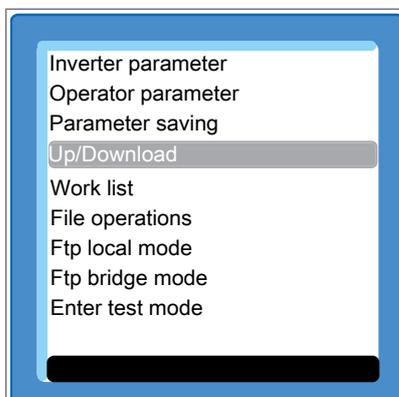
All inverter and operator parameters are read out and saved in the flash memory. Every new upload process overwrites the pre-saved parameter lists.

Write parameter (Download) = F4

A download is not possible without saved inverter parameters → error message!

Tab. 11: Parameter saving

7.10 Upload/download of parameters



ENTER opens the submenu for uploading and downloading and displays the available lists (*.dw5).

Parameter saving (Upload) = F3

A download list is loaded from the current drive controller and stored under new name.

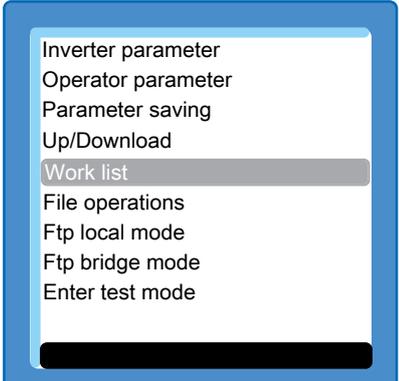
Write parameter (Download) = F4

An existing download list is stored in the drive controller.

Parameter lists, created with COMBIVIS in .dw5 format can be transmitted via ftp to the operator.

Tab. 12: Upload/download of parameters

7.11 Work list

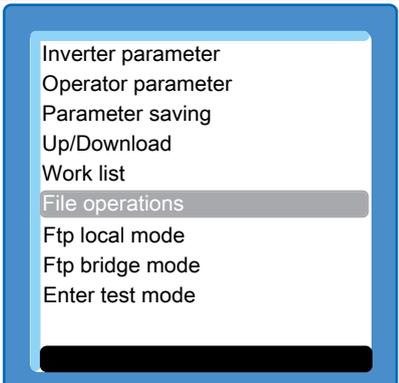
 <p>Inverter parameter Operator parameter Parameter saving Up/Download Work list File operations Ftp local mode Ftp bridge mode Enter test mode</p>	<p>ENTER opens the submenu for the worklist.</p> <p>The selection of a work list of the flash memory occurs in this menu item.</p> <p>Parameter lists, created with COMBIVIS in .wr5 format can be transmitted via ftp to the operator.</p>
---	---

Tab. 13: Work list

i A worklist named 'startup*.wr5' is automatically displayed when switching on.
* = stands for any placeholder.

- i** • The compilation of the work list must be done with COMBIVIS.
- i** • Parameters from other Cfg IDs (for example, operator parameter in complete lists) are displayed as "invalid address FFFFh".

7.12 File operations

 <p>Inverter parameter Operator parameter Parameter saving Up/Download Work list File operations Ftp local mode Ftp bridge mode Enter test mode</p>	<p>ENTER opens the submenu for the file operations.</p> <p>F1 : Back to the main menu</p> <p>ENTER: Display of file name / size / date / time / access level of the selected file. Since there is no real-time clock integrated in the operator, new created files have the date 2003-01-01.</p> <p>F4 : Delete the file</p>
---	--

Tab. 14: File operations

i To delete or to rename a file, the current access level must be higher or equal to the file level. The current level is determined via the operator password or specified when using KebFTP upon connection.

From KebFTP 1.5.0.0, the current access level is displayed when selecting a drive and the file level when selecting a file.

Deleted files are automatically cleared in the background.

7.13 FTP local mode

	<p>ENTER opens the submenu for the FTP local mode.</p> <p>The FTP local mode is used to transfer files from/in the flash file system of the operator via the KebFTP protocol. For the Ethernet operator the FTP local mode is always available via UDP port 8002. For the USB operator the USB interface is changed in this mode for KebFTP operation and does not longer respond to DIN66019II requests. The used baud rate is freely selectable for USB.</p> <p>F1: Back to the main menu</p>
--	---

Tab. 15: FTP local mode

i In this mode, the interface to the drive controller is also in KebFTP mode, so the inverter parameters cannot be accessed via Ethernet.

One of the PC programs "KEB FTP" or "COMBIVIS" is required to install missing files. Each file can be protected with an access level ((=> [File operations](#) [33])).

7.14 FTP bridge mode

	<p>ENTER opens the submenu for the FTP bridge mode.</p> <p>The FTP bridge mode is used to transfer files from/in the file system of the drive controller via the KebFTP protocol. In this mode, the files in the inverter can be accessed via Ethernet UDP port 8002 and via the USB interface. USB can't respond to DIN66019-II requests. The used baud rate is freely selectable for USB.</p> <p>F1 : Back to the main menu</p>
--	---

Tab. 16: FTP bridge mode

7.15 Function test of keyboard and display

	<p>ENTER starts a test mode, to check the function of the single keys and the LC-display.</p> <p>Follow the instructions on the display during the test run.</p>
--	--

Tab. 17: Function test of keyboard and display

8 Software

Files can be copied to the operator's flash memory with the programs "KEB FTP" and "COMBIVIS". The installation files for the required programs can be downloaded from the download area of (🌐 ▶ www.keb-automation.com) under the search terms "(🌐 ▶ [KEB FTP](#))" and "(🌐 ▶ [COMBIVIS](#))" .

9 Revision history

Version	Date	Description
00	2024-02	Prototype based on the manual "F6 Operator 20106497"

Glossary

Application

The application is the intended use of the KEB product.

COMBIVERT

Proper name for a KEB Drive Controller.

Customer

The customer has purchased a product from KEB and integrates the KEB product into his product (customer product) or resells the KEB product (reseller).

Index



MORE KEB PARTNERS WORLDWIDE:
www.keb-automation.com/contact





Automation with Drive

www.keb-automation.com

KEB Automation KG • Suedstraße 38 • D-32683 Barntrup • Tel: +49 5263 401-0 • E-Mail: info@keb.de