Computec Door Drive 6 (CDD6) Lift door Controller



CDD6 FW reference version: 01.05.000 APP reference version: v5.x



PRJ1166_01_07_03_01_02_WF rev.05

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App <-> CDD6 connection procedure

To be able to use CDD6 App with controller, mobile device has to be connected to Wi-Fi network of the CDD6 that the user needs to connect (Point to point Wi-Fi network without Internet access). By default, CDD6 Wi-Fi is switched OFF. To switch it ON set the parameter 0A to 1 using CDD6 front panel or CDD6 handset. If Wi-Fi network does not appear switch OFF and then ON CDD6.

Using CDD6 front panel - press 1 and 4 at the same time for 3 seconds, until the door drive enters in configuration mode (led CONFIG on); using 2 and 3 to increase or decrease the parameter index, select the P-OA parameter. By pressing key 1 access to the parameter value, and set the value to 1 (using buttons 2 or 3). After selecting value press button 1 to confirm, and next press button 4 to exit from the configuration mode.



Fig. 1 - Front panel setting parameter OA

When CDD6 Wi-Fi is ON, connect mobile device to CDD6 Wi-Fi using mobile device Wi-Fi settings (Fig. 2).



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Default CDD6 Wi-Fi connection parameters:

- **SSID (network name)** CDD6_XXXXXXX (XXXXXXX is CDD6 serial number indicated on the label attached to the CDD6 front panel as shown in Fig. 3)
- Password Computec



Fig. 3 - Serial number CDD6

NOTE: To reset the SSID and Password to default values set parameter 0A to value 2. In case of Android smartphone user should disable data connection of the phone provider network either using notification window or manually from the settings.

Send commands to CDD6

To be able to move the door or set new parameter values by App, CDD6 has to be in inspection mode. Inspection mode is set by holding the button 4 of the control panel for at least 1 sec. When mobile device is connected to CDD6, display shows "uF" and LED indicates inspection mode (led INSP is on). Changing from inspection to normal mode (by holding the button 4 again), a 30-minute time session is opened. During this time, it is possible to modify CDD6 parameters even in normal mode, also if the door operation is according to the main lift controller commands. It is not possible to open or close the door during this time.

If CDD6 is in inspection mode, and the connection between CDD6 and mobile device is lost, CDD6 remains in inspection mode for another 30 seconds. **ATTENTION: switching in normal mode the doors may move if commands are present from main lift controller!**



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Fig. 4-CDD6 App home page and menu

Initial App home page displays four icons that enable user to:

- 1. Download documents, manuals and upgrade files from FTP server if connected to Wi-Fi with internet connection (Download File)
- 2. Communicate with CDD6 if connected to CDD6 Wi-Fi (CDD6)
- 3. Open CDD6 documents downloaded in the App (Documentation)
- 4. Get the information on the App version, developer contact information etc. (Info)

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Download file

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User can access and download CDD6 upgrade files and manuals from FTP server if phone is connected to a Wi-Fi network with Internet connection (**not to the CDD6 Wi-Fi**).

	\equiv Download file	\equiv Download file
	Update files $\overline{\mathbf{\Im}}$	Update files
🖷 Download file	CDD6_BETA_01_02_001_UPG.bin	CDD6_BETA_01_02_001_UPG.bin
G CDD6	CDD6_BETA_01_02_002_UPG.bin	CDD6_BETA_01_02_002_UPG.bin
Documentation	CDD6_BETA_01_03_001_UPG.bin	CDD6_FW01_01_000_UPG.bin
	CDD6_FW01_00_000_UPG.bin	CDD6_FW01_00_000_UPG.bin
	CDD6_FW01_01_000_UPG.bin	
	Documents 	Documents
	CDD60_QR_DE_Rev01.pdf	CDD60_QR_DE_Rev01.pdf
	CDD60_QR_ENG_Rev01.pdf	CDD60_QR_ENG_Rev01.pdf
	CDD60_QR_ITA_Rev01.pdf	CDD60_QR_ITA_Rev01.pdf
	CDD6_IUM_deu_07.pdf	CDD6_IUM_deu_07.pdf
	CDD6_IUM_eng_07.pdf	File downloaded OK
	III O <	

Fig. 5a - download page document list

Fig. 5b - file download ok

Two types of files are available for download:

- 1. FW Upgrade files for CDD6 (.bin files)
- 2. Documents and manuals (.pdf extension and other files)

FW Upgrade files are downloaded and saved inside the App, to be used in "Upgrades" page of the APP. Documents are downloaded and saved in the App, to be opened in one of the "Documentation" page.

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Info page

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Info page contains App basic information with a link to CDD6 website: <u>http://www.computecelectronics.com/</u>



Fig. 6 - Info page with CDD6 URL link

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Documentation page

This section (Fig. 7a), permits to the user to open files previously downloaded in the APP. In case there are no files downloaded, App informs user to connect to FTP server and download documents. Once downloaded, documents are displayed in a list and user can choose which file to open (Fig. 7b). User can delete files from the phone by pressing the specific button and proceed pressing YES to the next confirmation request message (Fig. 7c).

C D			ı	=	Docume	ntation	
		CDD6_IUM_eng_07.pdf		CDE	06_IUM_eng_07.p	odf	Ŵ
🚭 Download file		CDD6_QR_Autoset_ITA_Rev0	2.pdf	CDE	06_QR_Autoset_I	TA_Rev02.pdf	
CDD6		CDD6_IUM_ita_07.pdf		CDE	06_IUM_ita_07.pd	jt	Ŵ
Documentation							
i Info	os 🔽			ſ	Warning Delete the file	?	٦
						NO	YES
				I			
III O <		III O	<			0	<

Fig. 7 - (a) Warning no document downloaded; (b) List of documents downloaded in App; (c) Delete file from the list

In case there are no documents downloaded, the App informs the user with a warning (below Fig. 8). NOTE: *The way a document is visualized depends on the user mobile device settings and document applications available on the user device.*



CDD6 start page

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Figure 9 - Initial CDD6 App page

From CDD6 start page user can access to different pages. The pages' structure is reported below:

Main menu	Subpages	
Settings	 -Auto-set -Quick setup: guided step by step selection of the main parameters that need to be set) -Opening parameters -Closing parameters -Force settings -Advanced settings -Parameters management 	
Diagnostic	 Inputs/Outputs status Alarms list -Last alarms -Statistics 	
Wi-Fi settings	None (options to set wi-fi connection)	
Updates	None (options to Open file, Check current version, Upgrade)	

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Diagnostics page

Contains four sub-pages:

- 1. In/Out inputs (on the left) and outputs (on the right) of CDD6 door drive
- 2. Alarms list of saved alarms counters
- $3. \quad Last \ alarms-history \ of \ last \ 10 \ alarms$
- 4. Statistics list of various information available on the door drive

≡		
	In/Out Alarms Latest alarms Stat	In/Out Alarms Latest alarms Stat
Settings Diagnostics		1 Memory match 0
		2 Motor Overheating 0
		3 Lock/UnLock Failure 0
		4 Motor Connection Err. 3
	FFC-L (1) DIN21	5 Motor Encoder Jerk 2
?		6 Warning Overheating 0
Wifi Settings Updates	RC DTBC-	7 Motor Connection Err. 0
	EOC-L	8 VBUS Overvoltage 0
		9 PWM Trip 0
III O <	III O <	III O <
Diagnostics Molecular Statest alarms Statest alarms RESET LAST ALARMS	Diagnostics Diagnostics In/Out Alarms Latest alarms Stat OPEN CLOSE STOP	
ALARMS TIMES	TYPE COUNTERS	
5 Warning Overheating 88d 12h: 57m	Opening Time 0 ms	
1 Motor Overheating 0d 0h: 0m	Closing Time 0 ms	
1 Motor Overheating 0d 0h: 0m	Total Space 120 mm	
1 Motor Overheating 0d 0h: 0m	Skate Space 10 mm	
1 Motor Overheating 0d 0h: 0m	Motor Type DC_1NM MOOG enc	
1 Motor Overheating 0d 0h: 0m	Inversion Force 38 %	
6 Motor Connection Err. 88d 19h: 41m	Work Time 100d 15h: 34m	
5 Warning Overheating 88d 14h: 50m	Opening Cycles 37	
5 Warning Overheating 88d 14h: 12m	RESET	

Figure 10 - (a) Input/Output (b) All alarms list (c) Last alarms list (d) Statistics

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This page permits to the user the access to the set menu for the desired options, or to execute the auto-set procedure directly from the App.



Sub-Pages	Description		
Auto-set Guided execution of the auto-set procedure			
Quick Settings Settings of the main parameters linked to the door operator settings			
Opening	arameters to set and manage the opening profile and parking		
Closing Parameters to set and manage the closing profile and parking			
Force Parameters to set and manage the obstacle detection in closing			
Advanced	Access to all the advanced setting parameters for the fine tuning		
Parameters Access to the parameters sets management, to import/export the parameter			

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Auto-set page

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The auto-set page guides the user to the execution of the door self-learning

\equiv Settings	≡ Autoset	≡ P90
AUTOSET QUICK SETTINGS	P90 Motor Type >	
	START AUTOSET	OPEN CLOSE STOP
OPENING C CLOSING	Motor type DC_1NM SIBONI enc	Enter value manually:
	Skate space	
FORCE ADVANCED	I Ulai space	AUTOSET
PARAMETER MANAGEMENT	III O <	SIBONI CON SIBONI CON CON CON CON CON CON CON CON
≡ Autoset	≡ Autoset	
P90 Motor Type >	P90 Motor Type >	
START AUTOSET	START AUTOSET	
Motor type C	Motor type DC_1NM SIBONI enc	
Skate space	Skate space 147mm	
Total space	Total space 20mm	
Autoset in progress	Autoset completed	
	III O <	

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Quick settings page

This section guides the user to the main parameters of the CDD6 door drive. By selecting one of the list elements, it is possible to access to the specific parameter page (Fig. 11) and, if necessary, to change the parameter value. User can set new values by selecting one of the icons shown. Current value is indicated by the icon circled in red.



Fig. 11 - Quick setup parameter page, access and example of parameter set-up

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Opening parameters page

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This section permits to the user to access to all the parameters for the configuration and management of the opening profile, the parking at door open and the obstacle detection in opening direction (when enabled).



Fig. 12 – Opening parameters page: access and example of parameter set-up

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Closing parameters page

This section permits to the user to access to all the parameters for the configuration and management of the closing profile and the parking at door closed.

\equiv Settings		\equiv Closing settings	≡ PC7
		PC4	LOW FINAL SPEED
AUTOSET		Skate speed >	
AUTOSET	QUICK SETTINGS	PC5 Low start speed >	
OPEN		PC6 High speed >	OPEN CLOSE STOP
OPENING	C CLOSING	PC7 Low final speed >	Value 35 [mm/s]
REVERSING		PCC Profile maximum current >	min = 30 max = 100
FORCE	ADVANCED	PCE Parking cur. (% of nom. motor cur.) >	DEFAULT VALUE
		PD7 Timeout parking reduced current CL >	SAVE
PARAMETER MANAGEMENT			
111	0 <		III O <
	Fig. 13 – Closing J	parameters page: access and example of p	parameter set-up

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Force limiter parameters page

This section permits to the user to manage all the configuration parameters for the obstacle detection and settings during the closing movement.

\equiv Settings		Force settings		≡ PDA	
AUTOSET		PD9 Force Self-tuning	>	FC	MAX %
AUTOSET QUICK	SETTINGS	PDA Force limit	>		MIN
		PDB Force MIN limit	>	OPEN	CLOSE STOP
OPENING C CL	OSING	PDC Force MAX limit	>	Value 39	9 [%]
	×			min = 0	max = 99
FORCE ADV	VANCED			DEF	AULT VALUE
					SAVE
PARAMETER MANAGEMENT					
III O	< 1	II O	<	111	0 <

Fig. 14 – Force limiter parameters page: access and example of parameter set-up

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Advanced page

Advanced page shows the list of all parameters that can be changed by the user (Fig. 15). User can modify parameter value by clicking on the pen icon in the right, accessing to the detailed window that shows parameter description, current value, and in case of parameter range, range values as min and max value of the slider. By clicking ok button, new value is automatically saved on the CDD6.



Fig. 15 - (a) All parameters list (b) Set binary parameter value (c) Set range parameter value

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Fig. 16 – Parameters management page

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WiFi settings page

Wi-Fi setup page shows current SSID and Password.

User can change SSID, Password or both using dedicated text boxes.

NOTE: SSID can be maximum 12 characters long, Password maximum 8 characters. Only alphanumeric characters and underscore (_) are accepted for SSID.

≡		≡ Wifi Settings
K		WiFi SSID (max 12 char) CDD6_Roger SET NEW SSID WiFi PASSWORD (max 8 char)
Settings	C D D	SAVE ALL UPDATE DATA
Wifi Settings	Updates	
III O	<	III O <

Figure 17 – Wi-Fi setup page showing actual SSID and password values

If setup is completed with success, CDD6 door drive restarts the Wi-Fi module to activate the new settings.

NOTE: the reset of the Wi-Fi module implies the loosing of the connection with CDD6. User needs to restart the connection with CDD6 by typing new SSID and/or Password in the mobile device Wi-Fi settings window.

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Updates page

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From "Updates" page user can check the FW version currently installed on the CDD6 (Fig. 18b) and decide if to upgrade CDD6 or not, if available.

≡	\equiv Updates	\equiv Updates
	OPEN FILE CHECK VERSION	OPEN FILE CHECK VERSION
Settings Diagnostics	UPLOAD	Ver: 01.05.002 [ACDD] Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54
CDD		UPLOAD
Wifi Settings		
	Fig. 18a - Upload page	III O < Fig. 18b - Check controller FW version

NOTE: Upgrade is not possible if no file is opened by user (Fig. 19a). User should click on Open File button that lists all previously downloaded update files (Fig.19c). If no files are downloaded a warning message is shown (Fig. 19b). in this case user should disconnect from CDD6 connect to external Wi-Fi network or mobile network to download upgrade file(s) from the "Download" section.

\equiv Updates	\equiv Updates	\equiv Updates
OPEN FILE CHECK VERSION	OPEN FILE CHECK VERSION	OPEN FILE CHECK VERSION
Ver: 01.05.002 [ACDD] Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54	Ver. 01.05.002 [ACDD] Size: 171995 bytes CKC. Action of the second of th	INSTALLED VERSION Ver: 01.05.002 [ACDD] Signature CH De CDD6_FW01_00_000_ UPG.bin CDD6_FW01_05_002_ UPG.bin CDD6_FW01_04_006_ UPG.bin
No file loaded, unable to proceed with ок update III О К Fig. 19a - Warning - no file is open	No files downloaded. Connect to the FTP server and download files οκ III Ο Κ Fig. 19b - No files downloaded	III O < Fig 19c – Downloaded files selection
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When file is opened user can start CDD6 upgrade by clicking UPLOAD button. **NOTE: Upgrade is not possible if CDD6 is not in inspection mode (Fig. 20).**

\equiv Updates	\equiv Updates
OPEN FILE CHECK VERSION	OPEN FILE CHECK VERSION
Ver: 01.04.006 [ACDD] Size: 170030 bytes CKS: 0x0115A57E Date: May 26 2023 14:43:55	Ver: 01.04.006 [ACDD] Size: 170030 bytes CKS: 0x0115A57E Date: May 26 2023 14:43:55
UPGRADE 1 Ver: 01.05.002 [ACDD] Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54	UPGRADE 1 Ver: 01.05.002 [ACDD] Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54
UPLOAD	Update in progress 76%
CDD6 not in inspection mode! OK	
ig. 20 - Warning CDD6 not in inspection mode	Fig. 21 - CDD6 download in progress

Once the upgrade has started, the dedicated progress bar informs user on the transfer progress. Once entire file has been downloaded on the CDD6, the device verifies the integrity of the file and proceeds to internal upgrade. When upgrade is completed, CDD6 restarts and user needs to wait few seconds to be able to restart the connection automatically. If upgrade was successful the related installed FW text becomes green (Fig. 22), otherwise red.

\equiv Updates	\equiv Updates
OPEN FILE CHECK VERSION	OPEN FILE CHECK VERSION
Ver: 01.04.006 [ACDD] Size: 170030 bytes CKS: 0x0115A57E Date: May 26 2023 14:43:55	Ver: 01.05.002 [ACDD] Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54 Update result: OK
Ver. 01.05.002 (ACDD) Size: 171995 bytes CKS: 0x118C732 Date: Sep 28 2023 18:01:54	UPLOAD
CANCEL	
Please wait for WiFi module to restart	
III O <	III O <
	Fig. 22 - Update completed OK
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Warnings

"Lost connection with CDD6. Check connection" – If App tries to reach CDD6 but does not receive replies for 15 seconds, or the APP has lost the previous connection with the CDD6, it issues a warning. User should check if mobile device is connected to CDD6 Wi-Fi and Click OK.



"CDD6 not in inspection mode!" - If user tries to: change parameter value, open or close the door, update CDD6 etc. while controller is in normal mode, the request is rejected and App issues a warning. User has to put CDD6 into inspection mode and retry the operation.



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"Checking the connection with CDD6" – App lost connection with CDD6 Wi-Fi. Check that mobile device is connected to CDD6 Wi-Fi and Click OK.



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