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# ControlClock – User Guide

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## 1. ControlClock – Software Description

ControlClock is a PC based software application, which is used for configuring break and work shifts schedule profiles settings of the NDC clocks with LAN TCP/IP connection.

## **1.1 System Requirements**

System requirements are: PC with operating system Windows 8 / 7 / Vista / XP with minimal resources and LAN connection.

#### **1.2 Program Installation**

Copy folder ControlClock from the CD to your PC hard drive and run the **ControlClockSetup.exe** installation file.

#### **1.3 ControlClock – start window**

When the ControlClock you shall see the initial window as in Fig. 1.

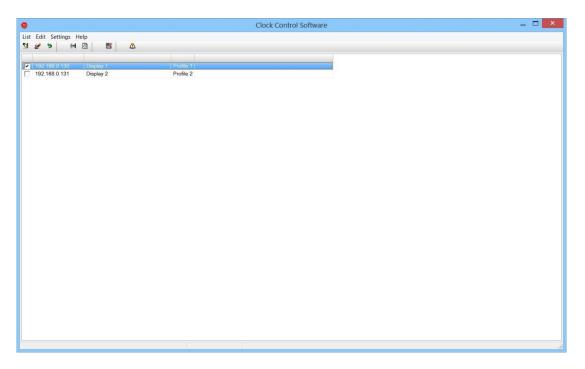


Fig. 1. Application start window

#### **1.4 Menu Description**

The application start window contains the following menu items in the top menu bar:

List	contains exit selection for ending the application		
Edit	editing and adding clocks to list, also shows log file		
Settings	used for setting communication parameters, creating profiles and		
	sending new settings into clocks		
Help	starts the manual and information about the application		

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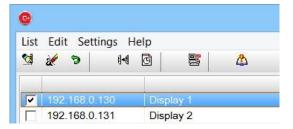


Fig. 2. Main menu

# **1.5 TCP/IP Communication Port**

When running the program for the first time it is necessary to set the correct communication port.

In the top menu bar select: Settings->Communication.

List Edit	Set	tings	Help		
1	1		munication	2	۵
1	( -(	Profi	ile		
✓ 192		Send	ł		
L 192	168.0	.131	Display 2	2	

Fig. 3. Setting the communication port

This will open window as in Fig. 4. Set the correct Port number and click OK. Port number must be the same as port number set in the clocks.

Port:	
2301	
	О.К.

## Fig. 4. Enter corresponding Port number

Note: If the Port number is incorrect the communication with clocks will not be established.

## **1.6 Ending the application**

To end the application select: **List->Exit**, or click on **X** in the top right window. See Fig. 5.

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	C	
	List Edit Settings Help Exit 🛯 🖾 🚟 🖧	
	✓ 192.168.0.130 Display 1	

Fig. 5. Exiting application

Display 2

192.168.0.131

# 2. List of Clocks

At first it is necessary to make a list of installed clocks. Each clock has the following identification parameters in the list (see Fig. 6):

IP address Description	<ul> <li>IP address of clocks connected to LAN ethernet network</li> <li>brief description in regards to each clock location</li> </ul>
Profile	(e.g. Hall1, Kitchen main clock, Lobby, Warehouse) - clock profile settings name (e.g. Profile 1, 2) - status of last communication with the clock

	Clock Control Software	_ 🗆 🔜
st Edit Settings Help		
2 🦻 🕪 🙆 🚨		
192.168.0.130 Display 1	Profile 1	
192.168.0.131 Display 2	Profile 2	

Fig. 6. List of clocks

## 2.1 Making a List of Clocks

In the top menu bar select: **Edit->Add** or click the icon **Add**, see Fig. 7 and 8. This will open a dialog window to enter the new clock record.

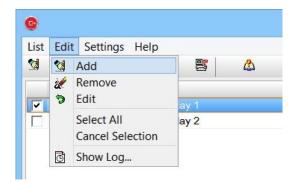


Fig. 7. Menu for adding clocks to list

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	G	
	List Edit Settings Help	
	▼         192.168.0.130         Display 1           □         192.168.0.131         Display 2	

Fig. 8. Button for adding clocks to list

Enter all fields with data as shown in Fig. 9 and click OK.

0	Entry				×
IP address:	Description - Localization:		Profile:		
0.0.0			Profile 1	~	
		Cancel	О.К.		

Fig. 9. New item entry for the list

Note: New item will be added below the selected item in the list.

# 2.2 Removing clock from list

In the top menu bar select: **Edit->Remove** or click on the Remove icon. Confirmation of action will be displayed.

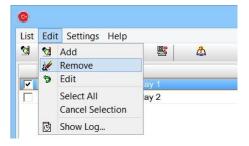


Fig. 10. Menu for removing item from list

G						
List	Edi	t Sett	ings He	lp		
<b>1</b>	2	9	( <b> -(</b>	ē		۵
~	192			Disp		
Г	192.168.0.1		131	Disp	lay 2	

Fig. 11. Button for removing item from list

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	Question	
	Are you sure you want to delete this entry?	
	Áno Nie	

Fig. 12. Confirmation dialog.

# 2.3 Editing Items in the List

In the top menu bar select: **Edit->Edit** or click on icon **Edit**, see Fig. 13 and 14. This will open a dialog window of item entry settings as in Fig. 9.

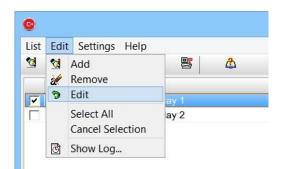


Fig. 13. Edit menu

9						
List	Edi	t Sett	ings He	elp		
😒 🌌 🖻		( <b> -</b> (	6		۵	
		1		1		
-	192	168.0	130	Displ	ay 1	
Г	192	.168.0.	131	Displ	ay 2	

Fig. 14. Button for editing list item

Confirm the changes by clicking on OK button.

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## 3. Profile

Profile is a collection of parameters which are necessary to set each specific clock in the clock list. It is possible to prepare 10 different profiles and these can be assigned to each clock.

Each profile contains:

- Table of breaks and work shifts
- Brightness curve setting of display
- Siren settings
- Clock synchronization settings

#### 3.1 Creating new profile

In the top menu bar select: **Settings->Profile** or click on the icon **Profile**, see Fig. 15 and 16. It will open a dialog window which has 10 possible profiles, see Fig. 17.

-					
List Edit	Set	tings	Help		
😒 🚀	•	Com	munication	9	۵
1	( -(	Profi	le		
▼ 192		Senc	i		



List	Edit Sett	ings H	elp		
<b>1</b>	2	ij <b>-</b> Ŋ	6		۵
~	192.168.0.	130	Disp	lay 1	
Г	192.168.0.	131	Disp	lay 2	

Fig. 16. Profile button

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le 1	Profile	2 Profile	3 Profile 4	Profile 5	Profile 6	Profile	e /	Profile 8	Profile 9	Profile	10	
īm	e Schedui Start:		ks and Wo Status:	rk Shifts:	Sound	l Alarm	n (Sir	en) Settir	ngs:			
	15:48	0	Work Shi				Brea		Break		Vork	
•	14:48	0	Work Shi				Start	5	End	S	hift	
•	_:	0	2		0	N	5	-	5	5	5	x 0.1s
1	_:	0	-						Contrast of		trakent.	
•	_:	0	5		0	OFF	5	\$	5		5	x 0.1s
• //	_:	0	4						-			A 0110
•	_:	0	-		0	N	5	-	5	5	5	x 0.1s
	_:	0	5		0		2	•			· •	X 0.13
1000	_ <u>-</u>	0	-			OFF	5	•	5	5	5	x 0.1s
_	_:	0			0		5		2			x 0.15
	_:	0	-			. 1	-		<b>F</b>	ı F		
-	_:	0	-		0	N	5	\$	5 🌲	5	5 <b>+</b>	x 0.1s
-		0								_		
	_:	0	-			Sou	nd \	/olume:	5 🜲			
-	_:	0	*									
_	<u>_:_</u>	0	<u></u>		Bright	ness S	ettin	gs:				
100	_ <u>:</u>	0	-				I	Briahtnes	s Curve =	= 11 %		
_	<u> </u>	0	-					Ū				
-	_: _:	0	-									
					Time	nroniza e Servo 2.168.(	er:	Settings:		Dav	diaht Sa	ving Time
						e Zone				U Duy	igne ou	ing time
					(GM	1T0:00	)) GN	1T				~

## Fig. 17. Profile dialog window

Double-click on the position of Time Schedule, which you want to change. This will open a dialog window for setting the time and duration of break, or start and end of work shift, see Fig. 18.

### Fig. 18. Information about break or work shift

Set the **Time** of begging of sound alarm (siren), select type of signalization by checking the field "**Break**" if you are setting a break. Then set **Duration** of break in the range of 1 to 99 minutes. If you are setting a work shift and not break, just uncheck the Break field. Click on **OK** button to confirm it.

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Using the same procedure set the necessary number of breaks and work shifts as needed.

Set the Brightness curve in the range of 0 to 100% according to desired brightness of the clock.

Set the sound alarm (siren) volume level from 0 to 9 and also the time duration for individual siren tones.

Set the IP address of NTP time server for time synchronization.

Check the Daylight Saving Time as desired.

It is also possible to set the time zone against GMT, depending on your time zone location.

#### 3.2 Resetting Profile

Click on button **New** in the dialog window as in Fig. 17. You will see the confirmation window as on Fig. 19. If you select Yes, the entire profile will be reset to default settings.

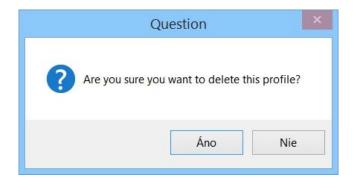


Fig. 19. Confirmation window

#### **3.3 Sending Profile to Clock**

In the list of clocks, select those clocks to which you want to send new settings. (Check mark in the first field, see Fig. 20.)

List	Edit S	ettings
2	2	-
~	192 168	8.0.130
-	100 100	3.0.131

Fig. 20. Selecting items for sending profile to clock

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In the top menu bar select: **Settings->Send** or click on icon **Send**, see Fig. 21 and 22. Information log window will open. It informs the user about the ongoing communication with clock, see Fig. 23.

9						
List	Edit	Set	tings	Help		
S 🧭 '		()-()	Communication Profile		<b>8</b>	۵
	✓ 192 1 §		Send			
Г	192.1	68.0	.131	Display 2	-	

Fig. 21. Send menu

G					
List	Edit Sett	ings He	elp		
😒 🚀 🦻		•			<u></u>
			1	Sei	nd Settings
•	192.168.0.130		Disp	lay 1	
Γ	192.168.0.	131	Disp	lay 2	

#### Fig. 22. Button to send new settings to clock



Fig. 23 Information about ongoing communication with clock

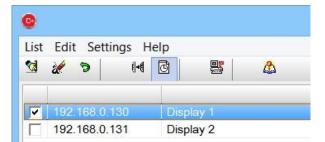
#### 3.4 Reading Log File

In the top menu bar select: **Edit->Show Log...** or click on icon **Log file**, see Fig. 24 and 25. It will open the log file window, see Fig. 26.



Fig. 24. Show Log menu

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# Fig. 25. Show Log file button

C:\Users\Goffa - ELEN\Desktop\ClockControl_EN\CtrlClock.Log	×
10.02.2015 20:25:24 -> Number of Clocks = 1Number of Errors = 1 10.02.2015 20:25:24 -> Time manager record and clock settingsCompleted. 10.02.2015 20:25:23 -> Clock is not connectedCommunication error. 10.02.2015 20:25:02 -> Clock IP: 192.168.0.130 Profile 1 10.02.2015 20:25:02 -> Time manager record and clock settingsWait please.	*

# Fig. 26. Information log file, shows communication with clocks

## 4. Notes:

(Write your own comments.)