COOPERATION WITH SEVERAL CONTROLLERS EFC-02

- Application EFC-02 is prepared to work with a greater number of controllers working in the local network. Such situation is possible in the case of large objects.
- The application automatically searches the start controllers working in a local network. If the number is bigger than> 1 it shows a list of active controllers. Controllers are differentiated known by their names. User by pressing the "Connect" selects the controller to which he wants to be logged.
- · After selecting appears login window and then you need to enter your user name and password. If you already saved your login in the application it automatically goes to the main window.

SWITCHING BETWEEN THE CONTROLLERS

- For easy switching between several controllers working in the same local network server bookmark "Switch Controller" available below the icon "Configuration". Switching between controllers is available to users in the "admin" and "user"
- The procedure is analogous to this as described in the "Collaboration with several controllers."

SOFTWARE UPDATE OF CONTROLLER

- Software updates in the EFC-02 is made from a PC.
- In order to update the software you needs:
- Download the current version of the software from the www.zamel.com or www.extafree.pl.
- 2. Connect the controller EFC-02 into a PC's USB port.
- Controller will report to the system as external memory by ZAMEL UPGRADE DISC
 In order to update the software, remove the file *. bin directory located on the ZAMEL UPGRADE DISC and then copy a new file.
- 5. After finishing copy process you need disconnect the controller from the PC.
- 6. The software is updated.

ACTIVE TABS IN THE PROGRAM FOR EFC-02

TRANSMITTERS

Collection of all virtual transmitters used to control receivers of EXTA FREE system what was installed in your house. The appearance of transmitters alludes to physical transmitters system. HOUSE



Allows you to split the whole house system level - living room - the device. Tab allows for simple and clear management of all the devices in the house to associated with the receivers EXTA FREE.

SCENES Allows you to define the specific sequence of events that you want to performing simultaneously or set delays. Scenes can be launched from the application or physical transmitter EXTA FREE.

TIMED OPERATION

Allows you to define the specific sequence of events that you want to perform at a specific time, day of week, month, or sequentially. Timed operations bring on automatically level of controller DETECTORS

Tab enables to preview status or values derived from the registered application of the radio detectors: temperature, illuminance, flooding, motion, etc.

CONFIGURATION

Tab allows you to enter basic settings configuration associated with users, network parameters, the remote access, language settings, etc.

LIMITATIONS

Limitations of the tabs: TRANSMITTERS / HOUSE/SCENES / TIMED OPERATIONS / DETECTORS	
The maximum number of transmitters to define the tab without limitation TRANSMITTERS	Unlimited
Maximum number of devices to define tab HOME	Unlimited
Maximum time for waiting key code	during the cloning operation press "END"
Maximum events (codes) creating a single stage	10
Maximum number of scenes can be defined in the tab without limitation SCENE	Unlimited
Maximum number of scenes in progress	20
Maximum events (codes) creating single TIMED OPERATIONS	10
Maximum number of functions can be defined in the tab TIMED OPERATION – globally for all users	40
Setting delay time	0 to 99 sec
Settings until you press	0 to 99 sec
Maximum number of detectors to define the tab DETECTORS	50
Maximum waiting time for sensor code during operation of adding detectors	press "END"

WARRANTY CARD

There is 24 months guarantee on the product	1. ZAMEL Sp. z o.o. assures 24 months guarantee for the product.
	The manufacturer's guarantee does not cover any of the following actions:
C	a) mechanical damage during transport, loading / unloading or under other circumstances,
1	 b) damage caused by incorrect product mounting or misuse,
	c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the product functioning.
	 d) damage caused by Act of God or any other incidents independent of the manufacturer - ZAMEL Sp z o.o. e) supply sources (hatteries) included in the device during selling (if they are included)
	3 The PURCHASER shall be any claims in writing to the dealer or ZAMEL Sn. z o o
	4. ZAMEL Sp. z o.o. is liable for processing any claim according to current Polish legislation.
	5. ZAMEL Sp. z o.o. shall process the claim at its own discretion: product repair, replacement ormoney return.
	The manufacturer's guarantee is valid in the Republic of Poland.
Salesman stamp and signature, date of sale $\mathcal J$	The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.



THE APPEARANCE

redirections on the router.

Power connector RESET button - res	tore the factory	settings		Ę
Ethernet socket		-		
				/
				f
Error indicator SD c	ard			
Indicator connectior	USB			
The indicator of rece	eipt			
Gear indicator (broa	idcast)			
LAN switch indicato	r			
Power indicator				

EFC-02 MINI

MANUAL INSTRUCTION

Za//el

ZAMEL Sp. z o.o.



TECHNICAL SPECIFICATIONS

EFC-02 Mini				
Nominal supply voltage:	5V DC / 1.2 A - standard of Micro USB			
Nominal power consumption:	1.6 W			
to sustain the clock operation:	CR2032			
Durability of battery:	5 years			
m components of EXTA FREE:	Radio f = 868 MHz, unidirectional			
Total radio modules:	1			
Range:	Up to 250m in open area			
ossibility to increase the range:	Yes - via retransmitter RTN-01			
onnecting an external antenna:	No			
nunication with mobile devices:	802.11 a / b / g / n - pursued through the connection with the Wi-Fi router			
Connectors:	1 x RJ45 Ethernet port, 1 x Micro USB B 2.0			
Firmware upgradeable:	Yes - via USB port			
Remote sccess service:	Only for users with fixed external IP address			
LEDs:	6 x LED			
Operating temperature:	-10 to + 55 ° C			
Position:	free			
Protection degree:	IP20 (EN 60529)			
Protection class:	III			
Dimensions:	160 x 100 x 32 mm			
Compliance with the standards:	PN-ETSI EN 300 220-1, ETSI EN 300 220-2			



plik: inst_ext_en_efc-02 | modyfikacja: 22.05.2014

INSTALLATION

- Before installation controller you need carefully read the manual instruction.
- In order to ensure of proper communication with many elements of system EXTA FREE controller EFC-02 Mini must be installed in the central part of the house. Radius of controller in the open air is up to 250 m, however in objects such as apartments / houses may be limited. This follows directly from the existing obstacles; walls, furniture, ceillings, etc.
- EFC-02 controller do not put in metal enclosures / switchgears and in close vicinity devices which emiteing large electromagnetic distrurbance.
- EFC-02 controller must be necessarily connected to the Wi-Fi router. Router must be automatically assign IP addresses (DHCP unlocked). For connection should be use free LAN port on the router.
- To launch and use the EEC-02 is not required for access to the Internet



Wiring scheme of controller EFC-02

- 1. EFC-02 controller connect into free LAN socket on the router using a standard UTP / FTP (cable islocated in sen with controller) 2. Plug in the plug USB Micro B adapter into the appropriate slot "5 V DC" EFC-02 controller (the appropriate USB cable and power adapter
- are in set with controller).
- 3 Insert the AC adapter into a 230 VAC
- 4. Wait a minimum 30 sec for successful implementation of the controller and assign IP-address of Wi-Fi router. Specified readiness for operation LED liahtina
- 5. If any problems with assignment IP-address of the router via port is set to "Auto-negotiation" (some of routers CISCO) switch the port to 10 Mbps speed.
- * ATTENTION! Considering open air range concernes, jeideal condition without any obstacles. When between controller and transmitter / receive are obstacles, then there must be reduction of radius depending of: brick 10 to 40%, wood and plaster from 5 to 20% of the ferroconcrete 40 to 80% of a metal from 90 to 100% glass of 10 to 20%. Negative impacts on different activities are also ground and underground high electrical power lines and mobile phones arranged in the immediate proximity to the equipment.

APPLICATION EXTA FREE

Configuration and control system EXTA FREE using EFC-02 Mini is achieved through the free app EXTA FREE

The application can be downloaded directly from the www.zamel.com or www.extafree.pl



THE NETWORK SETTINGS

- · Network settings entered in the "Network Settings" option under the icon Default in controller EFC-02 is active. DHCP Server service (the controller
- necessary to release DHCP service on Wi-Fi router that is connected to
- The controller has its own unique name under which is seen in the local
- Default controller name: EFC02-XXXX, where XXXX attributed at the fact
- The name of the controller can be freely modified depending on your pref

Minimum length controller name Maximum length controller name

- In order to record the modified name of the controller, press the button
- In justified cases controller can be given fixed, individual network settings.
- address Mask Gateway
- To save modified network settings, press the button

REMOTE ACCESS

ATTENTION: If controller EFC-02 remote access from outside local new

- To launch remote access services first of all you need make an appropr your network administrator) Then you need to log into the application as access" and enter the external IP address and Port for which is set to redi (all users associated with the controller Default application operates on the port 2013.
- In order record modified network settings press the button III
- · In case of remote access application immediately after starting begin to s forced attempt to connect for remote IP and Port of specified For remote connection with controller

For correct usage of time functions necessary is corrections data and time of application. To do that use the tab "Date and Time" available under the icon

"Configuration". Tab is visible only for users of the admin group. For saving settings you need press the button 関. After saving appears in messages:

- "Was changed date and time" record setting completed successfully
- "Error recording" record setting completed error
- When record completed with error then repeat please record test.

CREATING USERS

- The application serves for creating users tab "Users" available under the icc
 - Maximum number of users possible for creations: Maximum number of users logged to the EFC-02 co
 - Minimum usernames leight: Maximum username length: Minimum password length

Maximum password length

Special characters in usernames and passwords are not allowed For creation a new user, log in to the application as admin, enter to the tabs assign it to the appropriate group: user or admin.

- admin group the user has access to all application resources (configure) • user group - the users can only control. When that is necessary then
- Switches on the option editing is possible only after signed in into user ad When using an application, you can assign a user to another group or chang

admin group. For switching between users serves tab "Log out". Used symb



"Signed in" user assigned to the admin group "Signed off" user assigned to the admin group



Acceptance configuration by the user from "user" group • User from the group "user" during the first sign for application can benefit f

- previously to SD card New user after entering the correct username and password and press
- group or the SD card.
- Confirm your selection by clicking "OK". If you do not select any option the • If you select "Accept administrator settings" when you click "OK" will be to take. Select confirm "OK"
- If you select "Accept settings from SD card" then you need click "OK" morv card.
- · Select a user whose settings you want to take. Select confirm "OK".
- In the case acquisition of configuration from SD card, save the configurat we hold configuration
- Copy configuration from the user admin group or SD-card is possible at using this option, you must also copy the configuration confirmed by the Acceptance configuration by the user from "admin" group
- . The procedure similar as during taking over configuration by the user fro memory card

from the Google Play shop (for Android divices) • from the App Store (for iOS divices). The application is compatible with Android from the beginning of 2.3 version and iOS from the beginning of 6.0 version. Graphical appearance of apps maybe be different of model system depending.

FIRST START-UP OF APPLICATION

- 1 The application must be successfully installed on your mobile device.
- 2. Check correct connection of controller (inspector) EFC -02 with router Wi-Fi.
- 3. Check whether your mobile device is connected with Wi-Fi router cooperating with controller EFC-02.
- 4.Check whether controller EFC-02 Mini is ready to work (illuminated controls) 5. Start up application EXTA FREE on mobile divice.
- 6. After starting the application starts to search controllers EFC-02 connected to the router Wi-Fi.
- In the case of single controller after finding will appear:
- default name of the controller (DEFAULT No. entered on the controller housing)
- IP adress of controller

SET UP DATE AND TIME

- Data field for entering user name and password: default user name: admin, default password: admin.
- After pressing the "Sign In" will be redirected to the main window. When login process is completed successfully this is the signaled by

massage "Logged in". The icons in the main window representing functions available for the EFC-02 are active. Can then be accede to configure and control system.

- When you log in, you can save data entered by checking options "Remember Me".
- In this case after restarting application will be automatically redirected to the main window.
- To the logoff from the application serves button"Sign out " in the application " Configuration". If during the aplication time comes loss of communication with the controller then this message signals the "Offline Mode". All icons in the app will be "grayed out". Its necessary to closed this app and then kick-start again.
- If data entered during logging to the controller they are incorrect then this is indicated by a corresponding in the login window.
- Entry to the application is possible only after entering the correct data.

on "Configuration". Tab are visible o	nly for users from adr	nin group.			
	10				
ontroller:	5				
	5 characters				
	20 characters				
	5 characters				
	20 characters				
"USERS" and click 🕒. Following	the introduction of us	sername and password,			
uration and control system). editing options for user can be acti	vated from the tab "	Enter to the edit mode"			
iccount from user groups.					
ge its password. This can be done o pols:	only by user with				
"Signed in" user	assigned to the user	group			
"Signed off" user	assigned to the user	group			
		U F			
from configuration created by the use	er from "Admin" grou	p or configuration saved			
'Sign In" will be asked whether you	want to take the sett	ings of user from admin			
nen the application will start with em	pty configuration.				
displayed a list of users in the "adm	in". Select the user w	hose settings you want			
and will be displayed a list of use	rs whose configuration	on is saved on the me-			
ation previously created on the SD o	card and install the ca	ard with device to which			
any time of filing. Then select "Cop password of the sign in user.	by Settings" icon unde	er "Configuration".When			
om "user" group. In this case, there	is only ability to copy	y configuration from the			
"Configuration". Tab are visible only er expects to assign him IP address the controller.	/ for users from admin through the router W	n group. /i-Fi). In connection with			
network. actory by the manufacturer serial nu	mber				
ference within the minimum and ma	aximum number of ch	aracters:			
1 character					
20 character	"S				
. To do this deselect service _DHCP server" and make the necessary settings: - IP					
**					
)			
etwork is possible only for users	which have an exter	rnal fixed IP address.			
riate forwarding IP address / port of a user with admin group. In the tab , lirect. The introduced settings apply	on the router (in this "Network Settings" se globally to all resource	purpose best contact is lect the option "Remote ses of controller EFC-02			
seach controllers EFC-02 in the loca	al network. If it will be	not found automatically			
EFC-02 need to be accessed to the Internet.					

User of this tab is able to create unlimited number of scenes, understood as certain sequences of events. These sequences can be performed simultaneously or sequentially with the declared delays. System events EXTA FREE understood as sending code, pressing particular button. This code must realize specific task, for example, attach the lamp.

In a single scene, you can declare maximum 10 events (buttons).



ADDING SCENES					
ABBIILE COEREC					
To create a story you need:					
• Go to bookmarks "SCENES"					
 Created scene is visible below the sym 	bol 🎺 .				
While holding the symbol of created so	enes we have the opportunity:				
Amendment titles created scene A					
• Create a shortcut scene on the desktop of mobile phone or in an additional window					
 Scene removing . Editing scene (add / remove events, delay editing and pressing time) . 					
In order to adding events to the scene	should be created.				
Click the symbol to create scene, and t	hen click to change scene				
 Press the button . 					
Choose the first button (event) forming	scene.				
The button can be selected directly from t	he visible list of all declared in the buttons application or by moving tab TRANSMISTTERS / HOME.				
 In a similar manner add another events 	s forming scene (maximum of 10 events).				
In order playing of created scer	nes from the application level, you need press shotly on the symbol of the scene you want to play.				
	ying the scene displayed in the message. New scene has been launched .				
In the delay between events in the scene a	are set by default to 0 s is the event executing one after the other with distance of about 0.5 s.				
 In order to change delay between events in the scene needs: Press the symbol of created scene and select edition button of scene 					
Select event (button), for which we want to introduce delay and hold it.					
 Select option "Change the delay" Enter the delay in the range 0, 00 e or 	ad confirm with "OL"				
Enter the delay in the range 0 99 s at The delay is understood like as counted ti	no continuit with OK.				
The delay is understood like as counted in	the between the event, for which they cut a preceding event.				
CHANGING THE TIME C	OF PRESSING THE BUTTON IN THE SCENE				
The system EXTA EREE selected function	ins receivers are invoked by long pressing the button. To call up these functions from the scene is peressary to				
regulate until you press a button.					
In order time changes press the button on	the scene needs:				
 Press the symbol of created scene and Select event (button), for which we war 	I select edition button of scene L .				
• Select event (button), for which we war					
Select option "Change the time of press	sing"				
• Enter the time pressing in the range 0.	. 99s and confirm with "OK".				
Special functions in the system EXTA FRE	EE caused by pressing and holding the button (at least 3s):				
Function	The receiver				
Calling a comfortable settings	SKP-02 Radio blinds control				
	RDP-01 boxing radio dimmer RDP-02/SLR-01 Radio LED receirver one color				
Brightening / dimming	RDP-11/SLR-11 Radio Controller RGB				
	LEDIX luminaires with integrated radio receiver LEDIX luminaireswith integrated RGB controller				
	(only in cooperation with the transmitter P-260 and sliders RGB)				
Calling mode FLOATING	RDP-11/SLR-11 Radio controller RGB				
Calling mode FLOATING / STROBE	• LEDIX luminaireswith integrated RGB controller (only in cooperation with the transmitter P-260 and sliders RGB)				
Switching off	LEDIX luminaireswith integrated RGB controller (only in cooperation with the transmitter P-260 and sliders RGB)				

User using				
	g the tab can:	e		
fund to th	ation of unlimited number of ctionality. Appearance created the receivers and available n	ed transmitt nodes.	ers alludes to physic	al trans
H ••	The transfer functionalities	s of physica	I transmitters syster	n, to cre
This rece	allows for easy and fast tra ivers. The creatures of remo	nsfer of cor ote control,	nfiguration to the cur whose size (numbe	rrently ru r of of bu
♂ ♂	The remote control, enabl trolling windows blinds thr be located on your deskto	es you to o oughout the p of the mo	perate a plurality of house. Creating sh bile device or an ad	receiver nortcuts o ditional o
Free Free	ely edition of the names of t e governance created of tra	ransmitters ansmitters (and buttons. edition creation, edi	tion seria
Fransmitte	ers are available in the tab "	TRANSMIT	TERS":	1
	1-button transmitter (2 - channels)		2-buttons remote control	
	2-buttons transmitter		4-buttons remote control	
instruct The addeo	e functionality to the transm ions for a particular receiver d functionality of transmitter	itter through r. Transmitte can be ass	oped to the full screach h the appropriate as er visible in the appl igned also through o	en of app signmen ication, s cloning c
instruct The addec CLONING • "Cloning • You car • All trans- ter RNF • Cloning transmi	e functionality to the transmi ions for a particular received d functionality of transmitter NING OF TRANSMITTERS / BU g" option of transmitters/ bu figuring in this way the syste n clone all the transmitters v smitters can be cloned only C-02. between buttons however tter buttons RNK-04 or P-25	TTONS (fu ttors enable m is not ne vhile retaini with approp is so-called 57 / 4 remo	oped to the full scree h the appropriate as er visible in the appl igned also through of notion works similar es quick transfer of ecessary access to a ng their functionality oriate so-called type any completely, can te control.	en of app signmen ication, s cloning o in the ta physical already ir o or one o s, to the n, 'clone'
Instruct The added CLONING • "Cloning by cond • You car • All trans- ter RNH • Cloning transmi CLONING In order to correspon 1. Create 2. By long "Clone or ter, who remains press ti 4. Press a assignment	e functionality to the transmi ions for a particular received d functionality of transmitter VING OF TRANSMITTERS / BU g" option of transmitters/ bu figuring in this way the syste in clone all the transmitters v smitters can be cloned only (-02. between buttons however tter buttons RNK-04 or P-25 THE WHOLE TRANSMIT "clone" the physical function ding virtual transmitter in the a new transmitter from the a er holding the created trans- transmitter". htroller will enter to the stand sea functionality we intend to se functionality we intend to se functionality we intend to se functionality we intend to sen standby waiting until you e "END".	TTONS (fu ttors enable of the transmitter can be assessed to the transmitter can be assessed of the transmitter to the transmitter to the transmitter to the transmitter the t	oped to the full scree h the appropriate as er visible in the appli- igned also through of igned also through of nection works similar es quick transfer of cessary access to a ng their functionality priate so-called type any completely, can te control. e entire of the transm n must be: s in editing options a or the signal from the he application. The le signal from the transm its registration from S".	en of app signmen ication, s cloning o in the ta physical already ir or one o s, to the n, 'clone' nitter to t and choo e transm controlle ansmitter
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Instruct The added CLONING • "Cloning by conin By coning ter RNH • Cloning transmi CLONING In order to correspon 1. Create 2. By long "Clone 3. The corr ter, who remains press ti 4. Press a assignr CLONING In order to appropriat In order to appropriat S. Open th full wing 3. Press to the "Clo	e functionality to the transmitions for a particular received d functionality of transmitter d functionality of transmitter NING OF TRANSMITTERS / BU g" option of transmitters/ but figuring in this way the system in clone all the transmitters we smitters can be cloned only (-02. g) between buttons however tter buttons RNK-04 or P-25 FTHE WHOLE TRANSMITT "clone" the physical function ding virtual transmitter in the a new transmitter from the at er holding the created trans- transmitter". htroller will enter to the stand see functionality we intend to a new transmitter from the at er holding the created trans- transmitter". htroller will enter to the stand see functionality we intend to a new transmitter button i a new transmitter button of the te virtual transmitter button i a new transmitter from the at the transmitter on the dow of application and select the button." htroller will enter to the stand code, whose functionality we	TTONS (fu titer througi r. Transmitti- can be ass TTONS (fu titons enable m is not ne- while retaini with approp- is so-called 57 / 4 remot FER nality of the e application picture input dby mode for o move to ti u receive the mitter. After ressing "YE transmitter n the applic transmitter n the application. ct the icon clone" and co in actor "	<pre>oped to the full scree h the appropriate as er visible in the appl igned also through of nection works similar es quick transfer of accessary access to a ng their functionality oriate so-called type any completely, car te control.</pre>	en of app signmen ication, s cloning c in the ta physical already in or one o s, to the n, 'clone' nitter to t and choo e transm controlle ansmitter controlle



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TA	B D	ETECTORS	;			
In the	e case (of the controller EF	C-02 user by	using the the tabs	has the abi	
	Adding to the maximum 40 different applications of radio detectors of					
A_	A Free edition of names of detectors.					
	Free g	jovernance added	detectors (ed	dition pose, removi	ng detectors	
EFC- • R0 • R0 • R0 • R0 • R0	02 coni CL-01 F CL-01 J CK-01 F CZ-01 V CR-01 F	in the case of troller works only we tadio temperature of unction box radio to adio reed switch do Vireless flooding de Radio motion detec	r the control ith radio dete detector and emperature o etector. etector. tor.	ectors in EXTA FR illuminance. Jetector.	EE standard	
A	DDIN	G DETECT	OR			
To ac Pro Se	dd a de ess the elect fro	tector to the tab De button . m the list the type of	etectors mus	t be: ou want to add - fo	r example:	
(Î	Temperature detector		Illuminance detector		
 Affior Fo If t the de Fo 	ter sele pressin r addin he dete type o tector v r addin	cting the type of se g the "END"). g all of chosen dete ector is within range of the detector and iv vas saved. g another detector,	ectors into the of controlle its serial num repeat the p	er EFC-02 shall er e controller, press r it means that the ber and will asked procedure.	nter into stan the PROG b dial tone will d whether to	
IN	FOR	MATION FR		TECTORS		
In the time.	e case o The ref	of the controller EF	C-02 refresh	time of sensor val	ues is the de tterv life (3 to	
Part o	of deteo	ctors cooperating w	ith the contro	oller EFC-02 return	ns a value (te	
Statu	s od de	tectors returned by	sensors in a	applications for the	EFC-02:	
1	İ	Motion detector unimpaired		Reed switch d closed (door c	etector losed)	
	ŕ	Motion detector violated		Reed switch d opened (door	etector opened)	
In the By cli detec	e tab De icking o tor and	etectors all of the a n selected detecto time, which has el	dded to the a r follows his apsed since	application detector explication of a full the last update of	rs are displat -screen on ti its value.	
			b b	attery loaded		
Statu	s of ba	ttery changer in the	e detectors is	early signaled, it i	s for informir	
AB	OUT	SYSTEM				
Tab "/	About s	rstem" is available	beneath the	icon "Configuration	n". There is i	

RESTORE TO FACTORY DEFAULT SETTINGS

LAN connection

After the operation, RESET removed all data stored on the gateway (user accounts defined by the time functions, settings configuration).

