

OPTIMA 255V2

Digital entry phone panels OPTIMA 255V2

Installation and software manual for fitters

V.2.200

Rev. 13

ELFON[®]

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1. General information

Digital entry phone panels OPTIMA 255V2 have been developed based on OPTIMA 255. The OPTIMA 255V2 series can be used where no additional entries in the system are expected. OPTIMA panels are advanced entry phone central units with digital selection, displaying the number and messages on liquid crystal display and feature to control access executed by coded opening the entry door. Moreover, they can be customized for each user of the system (loudness, ring tones, etc.). Model OPTIMA 255RV2 is additionally equipped with RFID tags readers.

Some of the OPTIMA series panels benefits:

- integrated electronics (all necessary elements of the system in the outdoor panel),
- clear, highlighted liquid crystal display,
- comfortable, illuminated, vandal-resistant keyboard,
- double-conductor system,
- secrecy of talks,
- individual opening code for each flat and second entry (additional relay can be used to control other devices),
- option to change the settings for each used separately (ring tones, loudness, etc.),
- common codes (assigned to individual flats),
- option to connect up to 255 handsets,
- cooperation with different electronic locks (changes of current 10 ... 700 mA),
- short-circuit detection ability in a two-conductor system

Options of the panels equipped with RFID reader:

- comfortable opening the lock
- registering up to 20 unique RFID tags for each flat
- registering up to 8 unique RFID tags not related to a specific each flat

2. Technical data

Panel supply	14 - 15AC
Power consumption on stand-by	350 mA (without electric lock)
Power consumption during talk	450 mA (without electric lock)
Admissible load of the electric lock output (terminals EZN and EZN)	up to 700mA
Maximum load of additional output (terminals NO and CON)	5A 250VAC/30VDC or 10A 125VAC
Working temperature	-25° - 55° C
Keyboard illumination	white, two-stage
Flush dimensions	100x231x30 (mm)
Surface dimensions	124x258x11 (mm)
Wall-mounted housing dimensions	100x231x57/48
RFID standard ¹	EM4100 125kHz

Table 1: Technical data

¹ Applies to Optima 255RV2

3 . Installation manual

Elements of the complete digital entry phone system OPTIMA 255V2:

- outdoor panel including whole necessary electronics (it is a central unit of the system),
- power supply – to supply the panel use a power supply of output voltage within the range 12-15VAC and current 2A (min 20VA),
- handsets - with the digital entry phone system it is recommended to use Wekta TK7-OP, TK7-OP2 hand sets or equivalent,
- electric lock – it is recommended to use electric locks for voltage 12V AC/DC, of consumption max. 0.7A. Electric lock opening time to be set by software,
- door opening button (option) - any normally open (NO) button (e.g. door bell)

3.1 Installation

Panel should be mounted on the wall of a building, alternatively on a post in order to minimize adverse weather conditions. It is advisable to install on height the allows using by children and handicapped.

Panel supply

Use two-conductor cable of cross-section $>1\text{mm}^2$ to connect the panel to the power supply. Length of the supply cable should not exceed the value given in the below table when using the AC20 power supply (14VAC, 20VA, available from ELFON). Should length of the supply cables be longer, it is necessary to increase the panel voltage supply remembering not to exceed 15 VAC. For example, when using the supply voltage 15 VAC, it is possible to extent the distance to 70 m using the cable AWG17.

AWG	Cross-section [mm²]	Maximum distance [m]
17	1,04	10
16	1,31	15
15	1,65	20
14	2,08	30
13	2,62	50

Table 2: Length of supply cables with 14 VAC supply

More information on the digital panel connections together with additional modules and configuration of the supply is given in addendum A.

Description of panel terminals

Panel is equipped with a series of connections which are used depending on the degree of the system development.

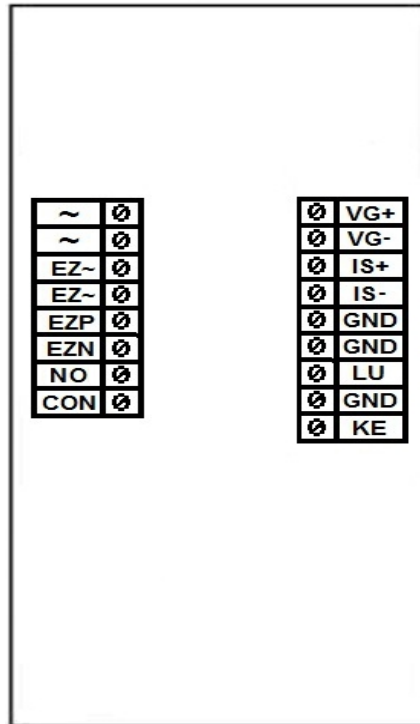


Figure 1: Panel terminals

Name	Description	Name	Description
~	Alternating voltage supply terminal	VG+	Video line terminal from main panel (+)
~	Alternating voltage supply terminal	VG-	Video line terminal from main panel (-)
EZ~	Alternating-current terminal of electric lock	IS+	Serial interface terminal (+)
EZ~	Alternating-current terminal of electric lock	IS-	Serial interface terminal (-)
EZN	Electric lock terminal, „-“ with constant polarization	GND	Ground terminal
EZP	Electric lock terminal, „+“ with constant polarization	GND	Ground terminal
NO	Relay	LU	Handsets line terminal to flats
CON	Relay	GND	Ground terminal
		KE	External trigger (bolt or relay)

Table 3: Description of panel terminals

Audio system installation

In the audio system, it is possible to establish voice connection between the panel and handset in flat. To make the handsets connection, use any two-conductor cable of conductor cross-section $>0.5 \text{ mm}^2$. Handsets can be connected using any method maintaining the polarization of conductors. Both, star-type connection to the bus or from handset to handset, will provide correct operation of the system. It is not recommended to connect the handsets using a cable of length exceeding 200 m. However, if this is necessary, it is possible, but one must use cables of larger cross-section (e.g. twice as large). Handsets are installed according to the manufacturer's installation manual. Connect paying attention to correct setting of physical address (number in decoder) and correct (correct polarization) connection to terminals LU and GND in the panel (LU - signal, GND - ground).

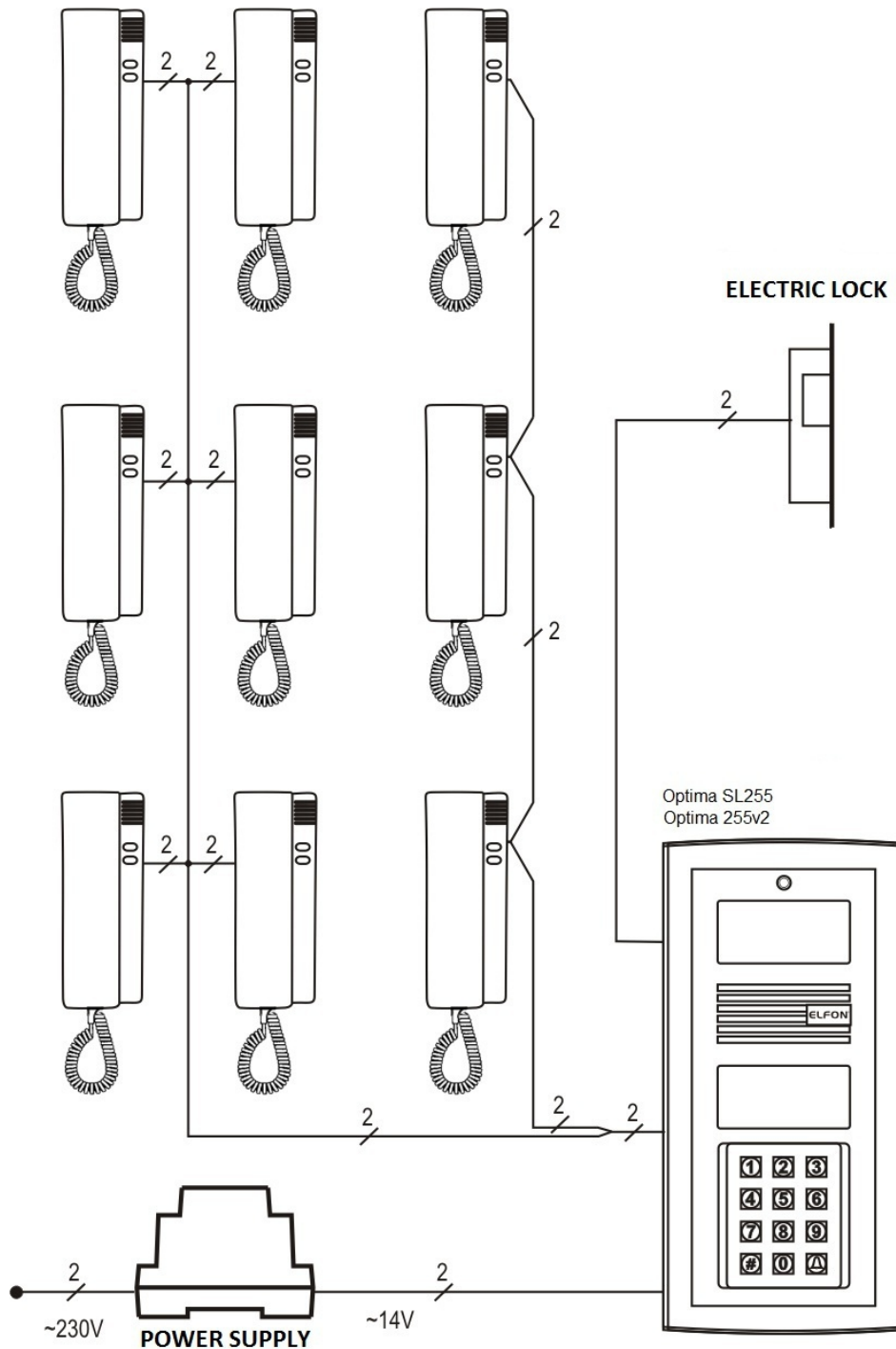


Figure 2: Audio system (single entry system)

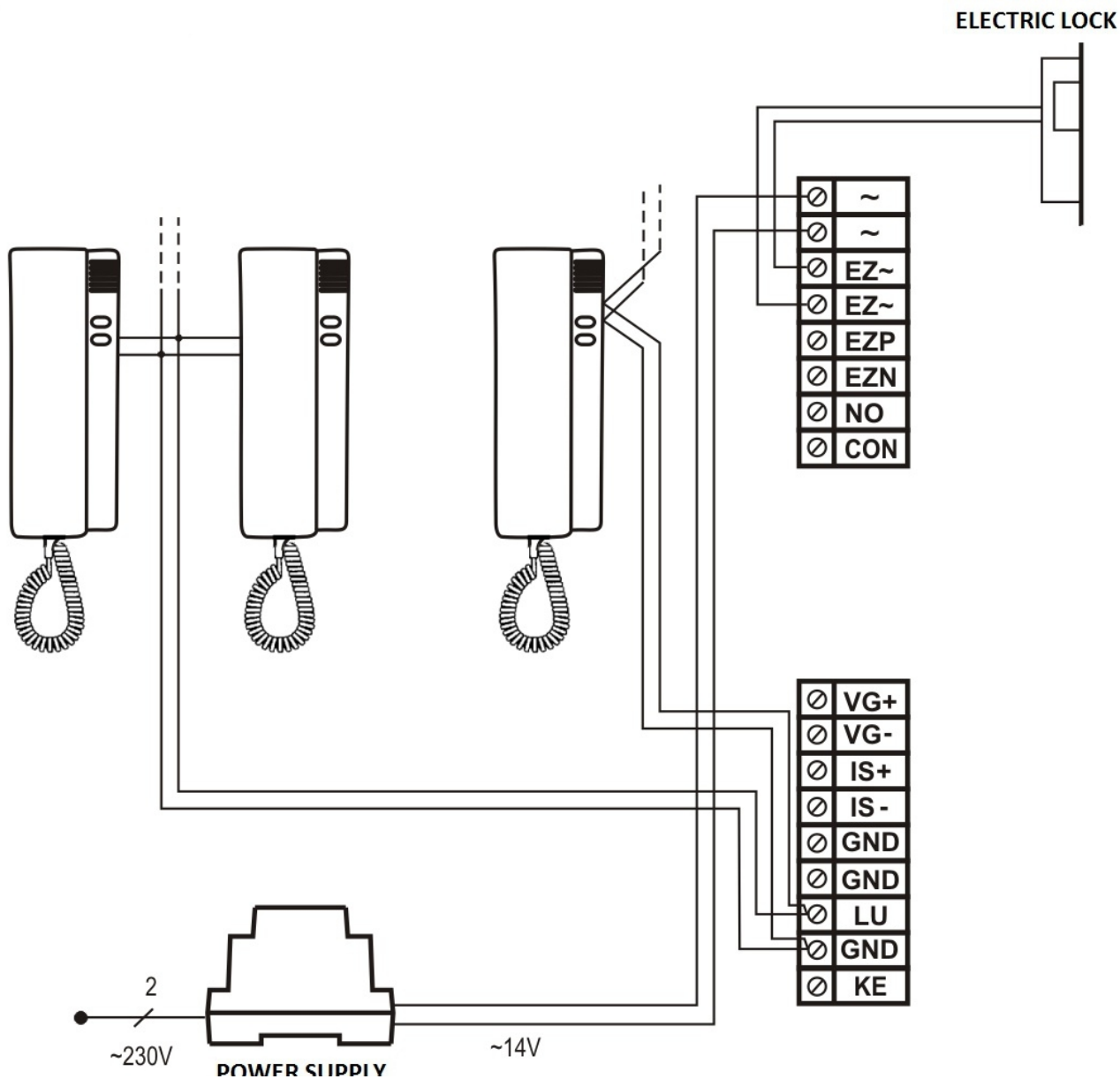


Figure 3: Audio system with panel terminals view (single entry system)

3.2 Replacing address tag

Fitter can place its own address tag in the panel address field.² To do that, loosen the locking bolt in the back part of the panel plastic cover in hole identified BS (glass lock, illustration 4). Then, depressing left part of the address field glass, slide the glass to left in order to remove it (illustration 5). Place own tag in a foil protection under the address window glass (illustration 6). Having placed the whole element in the address field, remember to screw the locking bolt.

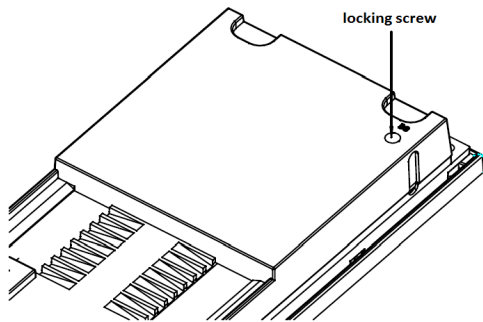


Figure 4: Locking screw

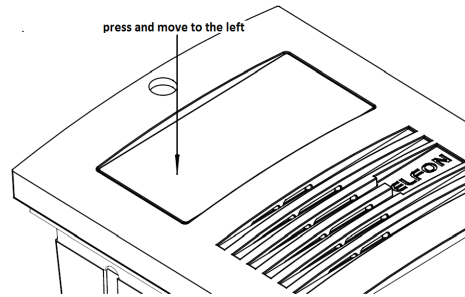


Figure 5: Address window glass demounting

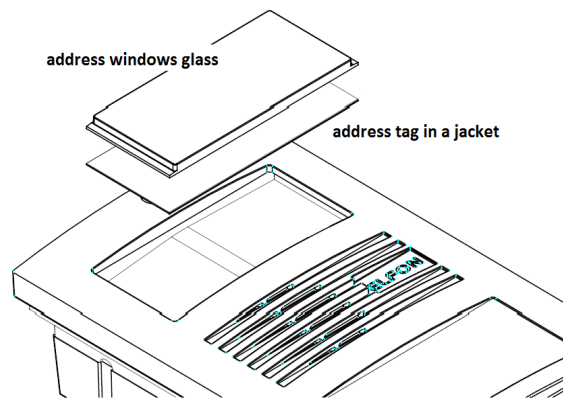


Figure 6: Address tag placement

² Applies to version Optima 255V2

4 . Operation and programming manual

It is possible to change a series of panel operation parameters (individual and general) in a simple and intuitive way. Parameters can be changed both by a fitter and user. Range of changes to be performed in the digital panel depends on the codes. Access to all functions is protected with a fitter password. Access to functions directly related to only one flat is user password protected. To provide proper maintenance of the system, fitter can limit the access of regular users to some or all functions.

4.1 Keyboard

Depending on the operation mode, to which the digital panel is switched, the keyboard and its keys fulfil different functions.

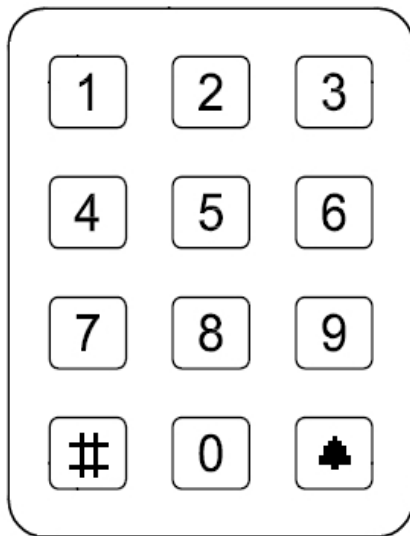


Figure 8: Keys functionality during normal operation

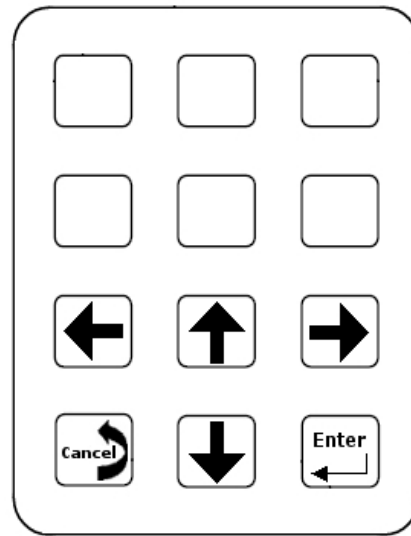



Figure 7: Keys functionality in menu mode

During normal operation, having depressed the key „” the screen displays ring symbol. Using „#”, we can delete the entered symbols or interrupt the last operation.

When in menu *Settings* keys „7”, „8”, „9” and „0” operate as arrows: left, up, right, down and keys identified with „” and „#” confirm or cancel the selection.

Figures 7, 8 present keyboard and functions of keys in the mentioned modes of operation.

4.2 Initial start-up

After correct electrical connection, the panel (initially calibrated in factory) is ready to use. Should any problems exist concerning operation of audio line, set two potentiometers in the back of the panel (Loudness - adjusts the loudness of audible signal in the panel, Microphone - adjusts amplification of acoustic signal from the panel towards handset, illustration 9), so that at the maximum possible loudness of the panel and maximum amplification of acoustic signal gathered by microphones, no coupling exists. The simplest way to perform this procedure is setting the required loudness and amplification of microphone, at which no excitation in the panel speaker occurs. **Balance potentiometer is factory set in optimum position and it is recommended not to adjust it.**

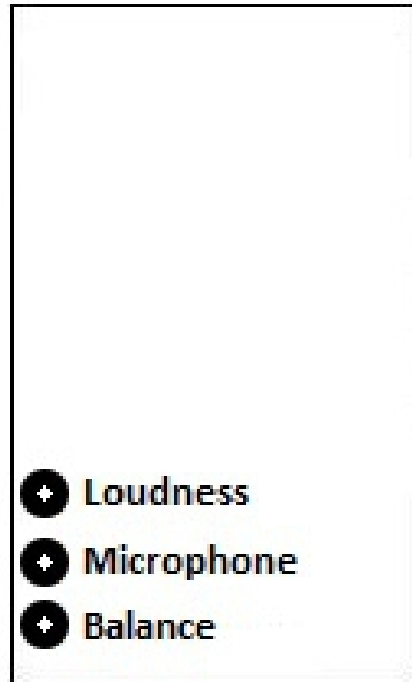


Figure 9: Potentiometers Loudness, Microphone, Balance.



If any of the mentioned above actions were made, panel can be use, however its additional, correct configuration would allow more efficient operation of the system. By default, the panel is programmed to cooperate with 255 handsets - within full range. Selection of any number starts the calling (even when a handset of selected number is not present in the system, it is not connected).

The digital panel EEPROM memory stores default administrator and users (tenants) codes. Default code table that depend on the panel serial number is different for each manufactured panel³.

!	Default administrator (fitter) code is provided by the manufacturer. It can be changed any time, after previous providing current code.
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4.3 Establishing a connection

To establish a connection (depending on the set option in menu):

1. using the keyboard, select flat number with which you want to connect and confirm with the key, „”⁴ or wait. E.g. 123  will cause the selection of number 123.
2. using the keyboard, select flat number with which you want to connect and confirm with the key

To delete erroneously entered number or terminate the calling, press „#”. Panel sends a ringing signal for a period of time set in the memory⁵. If during the calling, handset in a called flat is operated, the connection

³ General and individual codes can be changes arbitrarily from the menu level.









⁴ Fitter options allow changing the settings, so that the calling is automatic, after a set period of time, without the necessity to confirm with the key „ ”.

⁵ See General settings / Talking options / Ringing time










with the panel will be established. The screen displays message "Talking". The connection can take max. 255 seconds (about 4 minutes)⁶, and can be terminated earlier by putting down the handset receiver.

4.4 Opening the electric lock




The electric lock can be opened:

- after selecting user code on the entry panel - from the keyboard, select:
„” flat number + opening code + „”, e.g. for flat Np 123, which code is 5678, select from the keyboard: 1235678 , for flat No 3 with the assigned code 9876, this will be: 39876 ,
- having approached the RFID tag in proper place on the entry panel – having approached the wireless tag, electric lock automatically opens for a set, programmable period of time⁷.
- having selected a general code on the entry panel - entered code alone, without flat code, e.g. for code 1234 select 1234 ,
- during the talking from the handset, after selecting door opening button. If the connection of the panel with handset is not established, it is not possible to open the electric lock with the handset opening button,
- using additional button connected to KE input

Similarly, it is possible to activate additional relay if suitable settings allow that (see 5.3.3). It is only different with the method of starting the relay with the codes. Knowing the individual code, to activate the relay:

- after selecting user code on the entry panel - from the keyboard, select:
„” flat number + opening code + „”, e.g. for flat Np 43, which code is 8541, select from the keyboard: 438541 , for flat No 7 with the assigned code 6435, this will be: 76435 ,

Knowing the general code, to start the relay:

- having selected a general code on the entry panel - entered code alone, without flat code, e.g. for code 7523 select 7523 ,

⁶ See General settings / Talking options / Talking time

⁷ Applies to Optima 255RV2

5. Menu „Settings”

The Settings menu may differ depending on whether we use service (fitter) code or user code. Administrator has more options concerning the changes of individual parameters, has the access to settings unavailable for regular users and also has the option to lock the access for users to some of the settings.

Fitter gains access to the settings menu pressing the key „*” four times (display should show (S*)), giving the service code and confirming with the key *. In case of an exemplary service code 12345678, the sequence should be as follows: ****12345678*.

Alternatively, if a service RFID tag exists in the system, the setting menu may be entered pressing the key „*” four times and then placing RFID tag to the reader⁸.

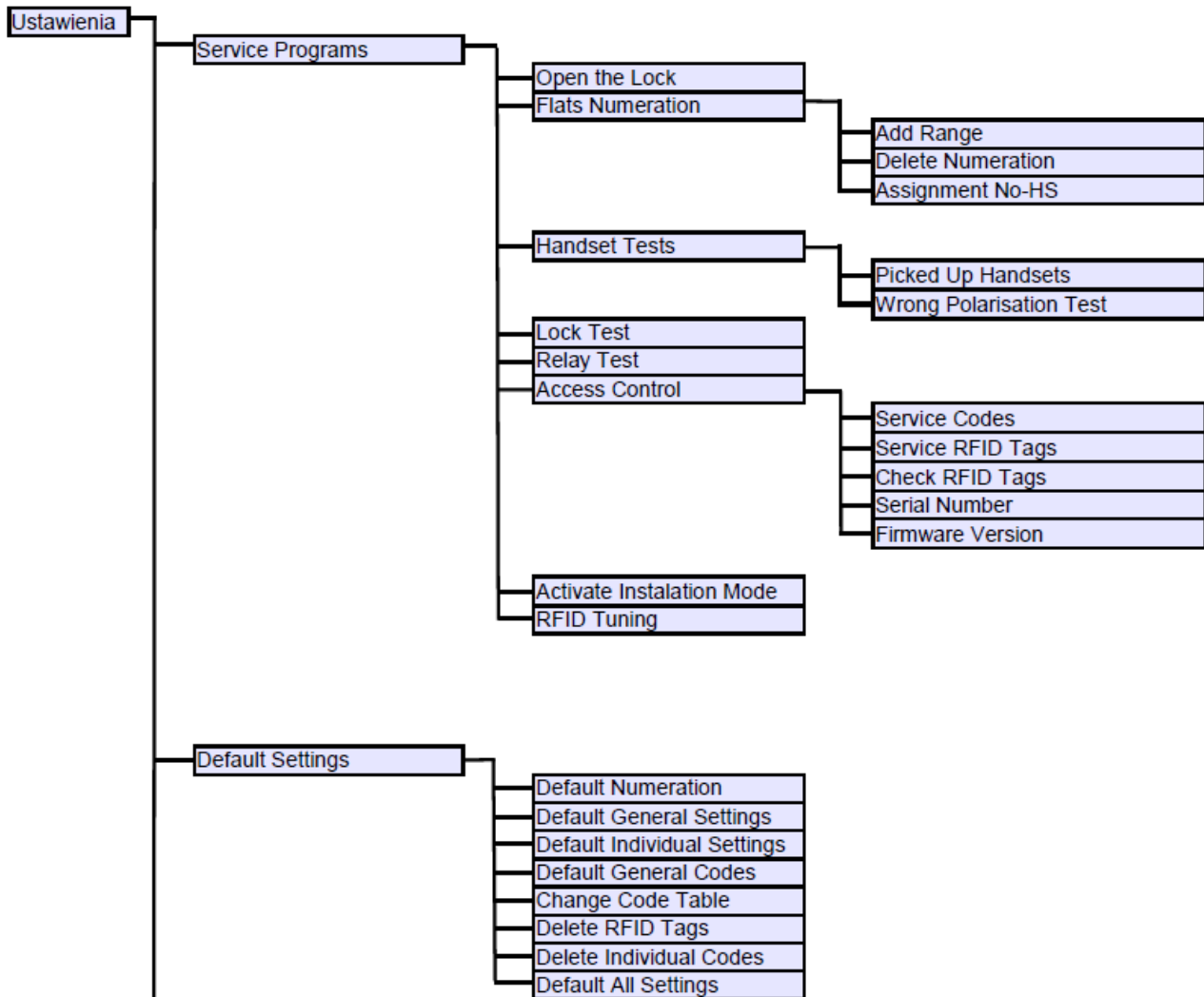


Figure 10: Menu Setting part I (administrator access)

⁸ Applies to Optima 255RV2

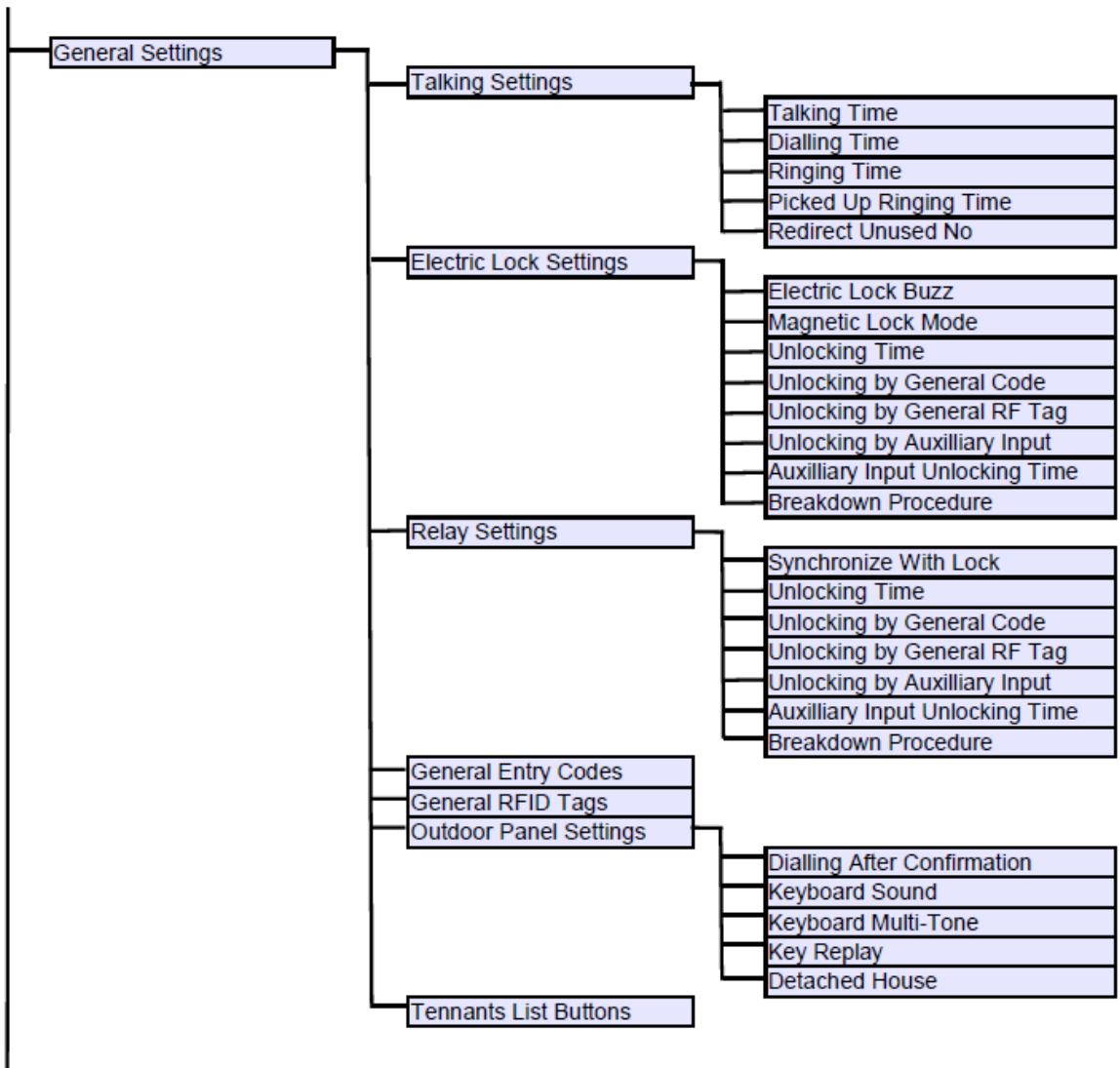


Figure 11: Menu Setting part II (administrator access)

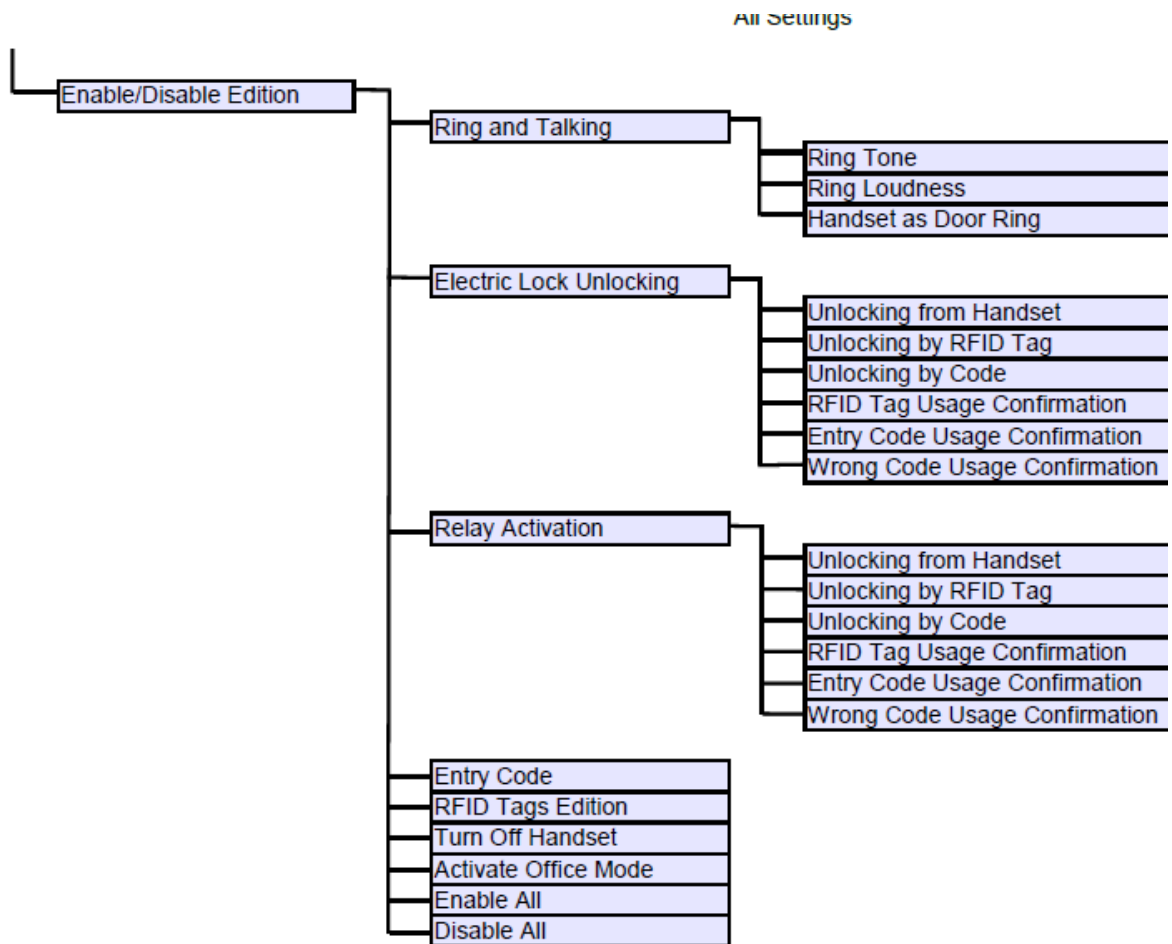









Figure 12: Menu Individual Settings (user access)

User may gain access to the setting pressing the symbol „” three times (display should show (U ), giving the flat number and code and confirming with the key „”.

For example, in case of a flat No 14 with code 0400, the sequence should be as follows:

   140400 .

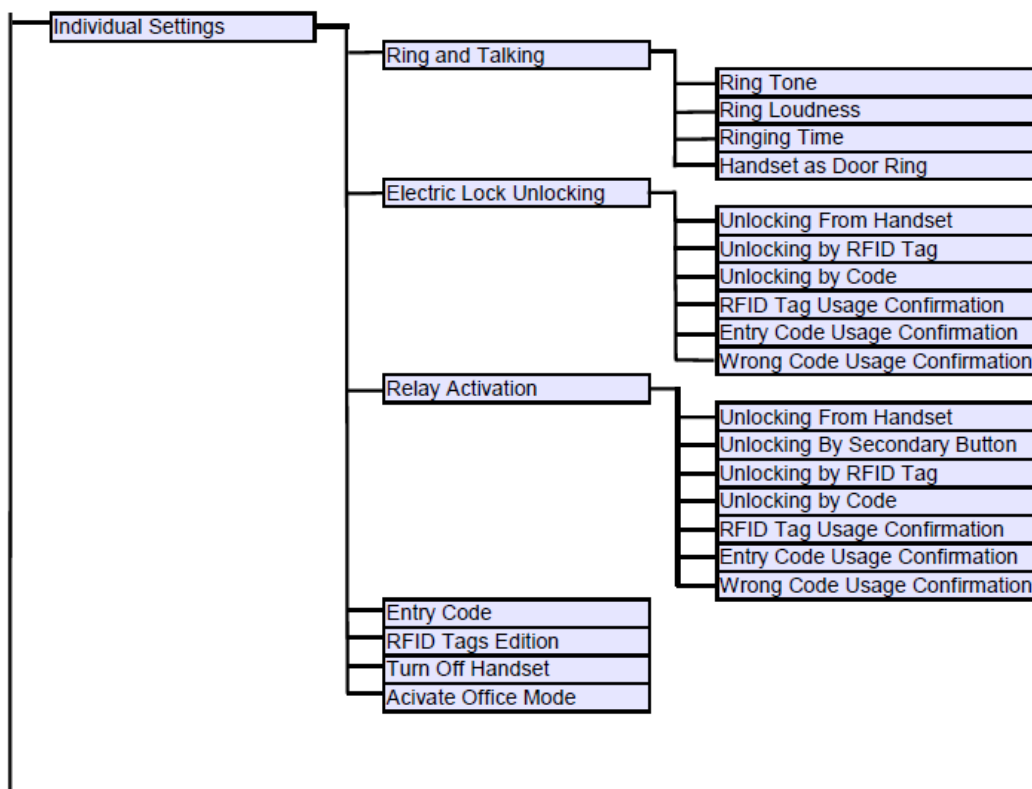


Figure 13: Menu Individual Settings (user access)

5.1 Service programs

5.1.1 Open the lock

Activation of this function causes opening the electric lock for a period of time set in the menu *General settings* (see item 5.3.2), opening the electric lock is always signalled by displaying the following message „<<OPEN>>”.

5.1.2 Flats numeration

Add range – range of flats number, with which the connection can be established, if a selected number is outside the range, the following message appears "NUMBER NOT FOUND",

Delete numeration – deletes all added ranges,

Assignment NO <-> HS – unit processing the flat number to physical address of handset
NO means the flat number and HS is the handset.

Moreover, this function allows manual edit of the physical address assigned to the flat number.

Handsets cooperating with the digital entry phone system Optima are addressable within the range 1 to 255 by setting proper keepers in the handset. Number set using this method is a physical address of a handset. Flat number consists of 4 digits selected on the panel keyboard by user. Optima panels have wide options concerning mapping the flat numbers with handsets physical addresses. This is made by defining the flats number ranges. By default, the panel has one range of flat number defined: 1 to 255. Individual number of flats correspond to the same physical address of handsets (table 4).

Flat No (NO)	Handset No (HS)	Flat No (NO)	Handset No (HS)
1	1	8	8
2	2	9	9
3	3	10	10
4	4	11	11
5	5	12	12
6	6
7	7	255	255

Table 4: Default numeration

To prevent a situation in which the panel attempts to connected with not existing handset, add the range of numbers, with which the panel should connect⁹. Function *Add Range* try to assign flat numbers to (if it is possible) their physical addresses. If all numbers in range are corresponding their physical addresses, the device will prompt: "RANGE ADDED – CORR. ADDR." Otherwise, if there is no option to add a whole range correctly – device will assign numbers to lowest free addresses, and it will prompt a message: "RANGE ADDED – MAPPED ADDR.". If the number of flats is incorrect (e.g. first number is bigger than last number), message appears: "RANGE INCORRECT". Furthermore, if the range is bigger than 255 (max number of flats) there will be message "RANGE TOO WIDE", or when all of the addresses are occupied, device will prompt "RANGE FULL". Entering a number from the range will call the corresponding handset, and entering a number outside the range will be signalled with a short sound signal and message "NUMBER NOT FOUND".

To enter the range:

- Enter the menu *Settings* (* * * * service code *)
- Select *Service programs* (confirm with „ * ”)
- Select *Flats numeration* (confirm with „ * ”)
- Delete current numeration, if this is necessary by selecting *Delete numeration* and press „ * ”,
- Select *Add Range*,
- Enter the beginning of the range and confirm with „ * ”,
- Enter the end of the range and confirm with „ * ”,

Example No 1

There are 20 flats in the building numbered: 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 101, 102, 103, 104, 105, 106, 107, 108, 109 110.

To limit the calling to the presented numbers:

delete current numeration (option *Delete numeration*)

And add two ranges:

range 1, beginning number 51, end number 60,

range 2, beginning number 101, end number 110.

Table 5 presents the assigned flat number - handset physical addresses for a range defined using this method.

⁹ In some systems, it could be advisable to leave the whole range.

Flat No (NO)	Handset No (HS)	Flat No (NO)	Handset No (HS)
51	51	101	101
52	52	102	102
53	53	103	103
54	54	104	104
55	55	105	105
56	56	106	106
57	57	107	107
58	58	108	108
59	59	109	109
60	60	110	110

Table 5: Range for example No 1

Note that the flat numbers **do not match** with the handsets physical numbers. At the moment of adding new range of flat numbers, the panel automatically assigns next addresses of handsets starting with the first available address. For the flat numbers to correspond with the handsets physical address, it is necessary to edit each assignment separately (option *Number assignment*). It is easier to do this by configuring the ranges from the level of Optima PC software. Detailed description can be found in *Optima PC 2.28 rev8 manual* available on elfon.com.pl (after logging in the tab *Manuals*).

Example No 2 - hotel numeration

There are three storeys in the building. On each storey, there are 7 flats numbered:

first storey: 1001, 1002, 1003, 1004, 1005, 1006, 1007,

second storey: 2001, 2002, 2003, 2004, 2005, 2006, 2007,

third storey: 3001, 3002, 3003, 3004, 3005, 3006, 3007,

To limit the calling to the presented numbers:

delete current numeration (option *Delete numeration*)

and then add three ranges:

range 1, beginning number 1001, end number 1007

range 2, beginning number 2001, end number 2007

range 3, beginning number 3001, end number 3007

Panel automatically assigns physical address of handsets to flats numbers within individual ranges, starting with number 1. Table 6 presents the assignments flat number - handset physical address for the range defined using this method.

Flat No (NO)	Handset No (HS)	Flat No (NO)	Handset No (HS)	Flat No (NO)	Handset No (HS)
1001	1	2001	8	3001	15
1002	2	2002	9	3002	16
1003	3	2003	10	3003	17
1004	4	2004	11	3004	18
1005	5	2005	12	3005	19
1006	6	2006	13	3006	20
1007	7	2007	14	3007	21

Table 6: Hotel numeration, example No 2

!	At the moment of adding new range of flat numbers, the panel automatically assigns the individual flats the next numbers of handsets starting with the first available address.
----------	--

Example No 3 - mixed numeration

There are 30 flats in the building – 20-39 and 240-259. To delete and add these two ranges, user should proceed just as in example 2. Because the second range exceeds number 255 (which is maximal amount of handsets), OPTIMA 255V2 will assign numbers bigger than 255 to the lowest free addresses in the system. Device will show message “RANGE ADDED – MAPPED ADDR.”. Table 7 presents the assignments flat number - handset physical address for the range defined using this method.

Flat No (NO)	Handset No (HS)	Flat No (NO)	Handset No (HS)
20	20	240	240
21	21	241	241
22	22	242	242
23	23	243	243
24	24	244	244
25	25	245	245
26	26	246	246
27	27	247	247
28	28	248	248
29	29	249	249
30	30	250	250
31	31	251	251
32	32	252	252
33	33	253	253
34	34	254	254
35	35	255	255
36	36	256	1
37	37	257	2
38	38	258	3
39	39	259	4

Additional feature for shifting and adding the ranges is *Assignment NO <-> HS* (where: No - flat number, HS - handset physical number), that gives currently added numbers and corresponding physical addresses, to be set in the handsets. The feature allows editing individual assignments flat number - handset address.

To change the assignment:









- Enter the menu *Settings* (* * * * service code *)
- Select *Service programs* (confirm with „ * ”)
- Select *Assignment NO <-> HS* (confirm with „ * ”)
- Using the keys „7”, „9” select the assignment to be changed and confirm with „ * ”
Using the keys "0", "8", it is possible to select whether new handset physical address is to be set for a flat number (NO) or new flat number (NO) for the given handset physical number
- Enter new number and confirm with „ * ”,
Change of the assignment will only be possible, when new number isn't already in use.

5.1.3 Handsets test

Picked up handsets

When addressing all sequential handsets, the panel checks whether any of them is picked up.

One of the possible causes of incorrect operation of the system could be incorrect putting down of a receiver of one of the handsets (or a few). To facilitate the fitters work, a feature that automatically searches for such handsets is added. To use this option:

- Enter the menu *Settings* (    code )
- Select *Service programs* (confirm with „  ”)
- Select *Handsets test* (confirm with „  ”)
- Select *Handsets picked up* (confirm with „  ”)











Panel will check each handset (if the ranges are added, only within the assigned ranges). When a handset with picked up receiver is found, the panel stops the search and shows on display the following message "NUMBER XXX PICKED UP", where XXX stands for flat number. Message will be displayed until putting down the receiver or pressing the key "#". At the end of the procedure, the panel displays a message informing about the number of handsets with picked up receiver (if the panel detected a handset and the receiver was not put down, and the checking was omitted with "#", the number will be more than 0).

Wrong polarization test

Activation of this option, causes the panel, having left the menu *Settings* to switch to Service Mode, that consists in generating a characteristic sound signal in the handsets line.

Some of the handset types, connected with wrong polarization, have the receiver loudspeaker connected to the line all the time. This can also apply to correctly connected handsets, but with defective address decoder system or other defect. Such handsets, because they impose significant load to the line, may be the source of incorrect operation of the whole system. When starting the *Wrong polarization test* fitter can detect handsets that load the line, even though they have not been addressed yet. The test consists in starting the function and checking whether signal generated by the panel can be heard in a given handset.

To activate the function:

- Enter the menu *Settings* (    code )
- Select *Service programs* (confirm with „  ”)
- Select *Handsets test* (confirm with „  ”)
- Select *Wrong polarization test* (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .








Generation of the signal starts after leaving from the menu settings. To interrupt the test, enter the menu *Settings* using service code and deactivate the function.

5.1.4 Lock test

The panel activates the electric lock

Operation of the electric lock can be checked by starting a test, without codes or RFID tags.

To start the test:

- Enter the menu *Settings* (    code )
- Select *Service programs* (confirm with „  ”)
- Select *Lock test* (confirm with „  ”)

After this operation, electric lock operates for maximum 30 s. Operation of the electric lock is always signalled with the message <<OPEN>>. Test can be interrupted pressing „#”. After completion of the test, the menu remains open.

5.1.5 Relay test

The panel activates the relay.

Operation of additional relay (NO and CON outputs), can be checked using a test, without codes. To start the test:

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Relay test*(confirm with „ ”)

After this operation, electric lock operates for maximum 30 s. Operation of the relay is always signalled with the message <<ACTIVE>>. Test can be interrupted pressing „#”. After completion of the test, the menu remains open.

5.1.6 Access control

Service code

allows changing the fitter code (8 digits), after previous entering current code,

Administrator (fitter) service code is provided by the manufacturer. To increase the safety and comfort of administrator, it is recommended to change the code after initial start-up. To change the service code:

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Service code* (confirm with „ ”)

then:

- Enter the code confirm with „ ”,
- Enter new code and confirm with „ ” (new code must have eight digits).
- Confirm new code by re-entering it and confirm with „ ” ,
- When "SAVE?" message appears, confirm with „ ” ,



Factory service code always starts with four digit prefix 1131. To provide compatibility, it is recommended that the new code maintains the prefix.

Service RFID tags¹⁰

allows editing (adding and deleting) fitter tags,











The service RFID tag allows editing the settings (allows entering the full menu *Settings* – see clause 5) without using the administrator code (RFID tag becomes additional code). Service tags can be added or deleted. Number of service RFID tags is max. 8.

To add the service tag:

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Service RF tags* (confirm with „ ”)
- Using arrows (keys "0", "8"), select tag number,
- Approach new tag near the reader module until message "ADD as X TAG" appears, where X stands for tag number,
- Confirm with „ ” , or cancel with „#”

¹⁰ Applies to Optima 255RV2

To delete the service tag:








- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Service RF tags* (confirm with „ ”)
- Using arrows, select the saved tag number with symbol √,
- Press „”, following message appears „DELETE TAG”
- Confirm with „”, or cancel with „#”

Check RFID tags¹¹

after approaching the tag, feature displays information about its function in the system: fitter, general, user with flat number or not assigned,

Feature "Check RF tag" allows simple identification of a tag. After its activation and approaching the tag, the panel informs whether the tag is already in the system, is it a service tag (and under what number it is saved), regular user tag (and which flat it is assigned to) or tag that is not save in the memory (not found).









To check the tag:

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Check RF tag*
- Message appears "APPLY RF TAG", each tag application causes that information that concerns the tag is displayed. To leave the RF tags checking feature, press „#”.

Serial number

panel displays its serial number,









Panel serial number has been clearly stated (for authorized personnel) in the panel software, so the administrator can check it any time without disassembling the panel. To check the panel serial number:

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Serial number* (confirm with „ ”)
- Message appears "SERIAL NO" and correct number is displayed. To terminate the number displaying press „#”.

Firmware Version

panel displays actual installed version of firmware.

To check the firmware version

- Enter the menu *Settings* (code)
- Select *Service programs* (confirm with „ ”)
- Select *Access control* (confirm with „ ”)
- Select *Firmware Version* (confirm with „ ”)
- Version number is displayed. To terminate the number displaying press „#”.

¹¹ Applies to Optima 255RV2

5.1.7 Activate installation mode










Activation of auxiliary mode during the system test.

The installation mode allows the fitter to establish connection from the handset level. Upon activation of the installation mode, all functions of the panel operate within normal mode, however it is possible to additionally establish connection from the handset level. To establish the connection:

- Pick up the handset receiver
- Push the electric lock button three times (at intervals 200-600 ms), at this moment the panel starts searching the whole existing range of handsets numeration (see clause 5.1.2)
- Wait for short sound signal confirming handset recognition
- After the signal, put down the receiver - after a while, the panel starts dialling

Because of the *Installation mode* fitter is able to check the basic functions of the system alone, establishing connections from individual handsets.








To activate *Installation mode* :



- Enter the menu *Settings* (    code )
- Select *Service programs* (confirm with „ ”)
- Select *Activate installation mode* (confirm with „ ”)
- Message informing about current setting appears (YES or NO), to change, press „ ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .

Having left the menu *Settings* operation of the *Installation mode* is signalled with an icon in the right top corner of display. *Installation mode* deactivates automatically after about 3 h.

5.1.8 RFID Tuning

This feature allows user to tune RF reader mounted in device.¹² To activate this function:

- Enter the menu *Settings* (    code )
- Select *Service programs* (confirm with „ ”)
- Select *RFID Tuning*(confirm with „ ”)

On the screen there would be prompt “Current”, and changeable parameter. By pressing 7 or 9 buttons, user can change adjustment of RFID parameter, in range from -32 to 32. Adjustment step is 4. To apply new value of parameter, press “” button, and then program starts testing the new value (message “TEST”). To test the new value, just approach RF tag near the reader. After the test, device will prompt message “APPLY”, and press “” button to apply new value, or press „#” to get back to RFID tuning.

¹² Applies to Optima 255RV2

5.2 Default settings

!

When restoring default settings, pay particular attention, because previous settings will be lost for ever.

5.2.1 Default numeration

Restores factory flats numeration method together with full range.

- Enter the menu *Settings* (* * * * code *)
- Select *Default settings* (confirm with „ * ”)
- Select *Default numeration* (confirm with „ * ”)
- Confirm again with „ * ”

5.2.2 General default settings

Restores general default settings (leaving those settings, that can be changed by users or only those that fitter allowed to change),

- Enter the menu *Settings* (* * * * code *)
- Select *Default settings* (confirm with „ * ”)
- Select *Default general settings* (confirm with „ * ”)
- Confirm again with „ * ”

Restoring general default settings under certain circumstances may not apply to ringing time set by user (if the time was extended by user beyond the ringing time set by administrator - see chapter on talk settings).

5.2.3 Default individual settings

Restores individual factory settings for each user.

- Enter the menu *Settings* (* * * * code *)
- Select *Default settings* (confirm with „ * ”)
- Select *Default individual settings* (confirm with „ * ”)
- Confirm again with „ * ”












5.2.4 General default codes

Restores general factory codes (it is a table generated based on the panel serial number).

- Enter the menu *Settings* (* * * * code *)
- Select *Default settings* (confirm with „ * ”)
- Select *Default general codes* (confirm with „ * ”)
- Confirm again with „ * ”

5.2.5 Change the code table









Allows entering other code table number that this would result from the serial number (e.g. when the old panel has been damaged or stolen, it is not necessary to pass new codes to tenants, and only enter in the new panel the table number resulting from the old panel serial number).

- Enter the menu *Settings* (    code )
- Select *Default settings* (confirm with „  ”)
- Select *Change the individual codes table* (confirm with „  ”)
- Current table number will be displayed (confirm with „  ”)
- Enter the selected number and confirm with „  ”
- Confirm with „  ”
- Confirm again with „  ”

Using this function, new opening codes will be generated: general and individual, according to the given table number.









5.2.6 Delete RF tags memory¹³

Deletes RF tags memory

- Enter the menu *Settings* (    code )
- Select *Default settings* (confirm with „  ”)
- Select *Delete RF tags memory* (confirm with „  ”)
- Confirm again with „  ”









5.2.7 Delete individual codes memory

Restores individual codes according to currently given table number (see 5.2.5)

- Enter the menu *Settings* (    code )
- Select *Default settings* (confirm with „  ”)
- Select *Delete individual codes memory* (confirm with „  ”)
- Confirm again with „  ”

5.2.8 Default all

Restores all factory settings

- Enter the menu *Settings* (    code )
- Select *Default settings* (confirm with „  ”)
- Select *Default all* (confirm with „  ”)
- Confirm again with 

¹³ Applies to Optima 255RV2

5.3 General settings

5.3.1 Talking settings

Talking time – determined maximum talking time,

Dialling time – maximum time for dialling and time for picking up set by fitter, *dialling time = ringing time + time to pick up* ,

Ringing time – time within which the ring tone is audible,

Picked up ringing time – time within which a handset connected to the panel rings with special tone - signalling incorrect receiver putting down,

Redirect unused numbers – option allows redirecting unused (numbers outside range) numbers to other selected number, e.g. gatehouse,

Talking time

Talking time can be adjusted within 1 to 255 seconds. Maximum talking time prevents the situation when too long conversation precludes using the entry phone by other users. To change the maximum talking time:

- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)
- Select *Talking settings* (confirm with „ * ”)
- Select *Talking time* (confirm with „ * ”)
- Screen informing about current setting appears (NOW = X, where X is a number within 1 to 255 and means the maximum talking time in seconds) to change, press „ * ”
- Message appears „SWITCH TO”, in order to enter time in seconds (time within 1 – 255 seconds) and confirm with key „ * ” (cancel with „#”).

Default value is 45 seconds.

Dialling time

Dialling time can be set within the range 1-99s. This covers the whole time the panel can use per unit trial of dialling. It is equal to a ringing time + time of waiting for picking up the receiver by a user. It cannot be exceeded. In case of selecting longer ringing time - only the waiting time is reduced, but the dialling time remains as set. To change the time:

- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)
- Select *Talking settings* (confirm with „ * ”)
- Select *Dialling time* (confirm with „ * ”)
- Screen informing about current setting appears (NOW= X, where X is a number within 0 to 99 and means the maximum dialling time in seconds) to change, press „ * ”
- Message appears „SWITCH TO”, in order to enter time in seconds (time within 1 – 99 seconds) and confirm with key „ * ” (cancel with „#”).

Default value is 45 seconds,

Ringing time

Ringing time can be set by administrator to equal the dialling time at most (note that in such case, picking up time will be automatically set to 0). If the ringing time has been set to lower value that the dialling time,

user (if administrator allows that) may extend the time to the upper limit value, i.e. the dialling time. To change the time:

- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)
- Select *Talking settings* (confirm with „ * ”)
- Select *Ringling time* (confirm with „ * ”)
- Screen informing about current setting appears (NOW= X, where X is a number within 0 to dialling time and means the maximum ringling time in seconds) to change, press „ * ”
- Message appears „SWITCH TO”, in order to enter time in seconds (time within 0 – dialling time) and confirm with key „ * ” (cancel with „#”).

Default value is 15 seconds.

Picked up ringing time (picked up handset while ringing)

Picked up ringing time specifies the time during which the panel informs user about incorrectly put down receiver and attempt to establish connection. After that the panel returns to standstill. This time can be set within 1-99 s. Default set value is 15 s. To change the time:

- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)
- Select *Talking settings* (confirm with „ * ”)
- Select *Picked up ringing time* (confirm with „ * ”)
- Screen informing about current setting appears (NOW= X, where X is a number within 1 to 99 and means the maximum picked up ringing time in seconds) to change, press „ * ”
- Message appears „SWITCH TO”, in order to enter time in seconds (time within 1 – 255 seconds) and confirm with key „ * ” (cancel with „#”).

Ringling time when the receiver is picked up is independent from the ring tone settings for a given handset. During ringing, user may put down the receiver, the panel starts the putting down and automatically initiates repeated dialling.

Redirect unused numbers

Unused numbers (all from outside the range) can be redirected to indicated numbers.





- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)
- Select *Talking settings* (confirm with „ * ”)
- Select *Redirect unused* (confirm with „ * ”)
- Screen informing about current setting appears (REDIRECT TO: XX, where XX is the number to which the unused numbers are redirected), to change, press „ * ”,
- Screen with the following message appears „ENTER NO”, enter the number and press „ * ” (cancel with „#”)

5.3.2 Electric lock settings

Electric lock buzz











Activation of this setting makes the panel to generate characteristic sound while opening the electric lock (e.g. use this option when DC electric lock is connected). To change the settings:

- Enter the menu *Settings* (* * * * code *)
- Select *General settings* (confirm with „ * ”)

- Select *Electric lock settings* (confirm with „“)
- Select *Electric lock buzz* (confirm with „“)
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with .











Magnetic lock mode

Magnetic lock mode allows connecting the magnetic lock type electric lock. To change the settings:

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“)
- Select *Magnetic lock mode* (confirm with „“)
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with .











Unlocking time

Electric lock unlocking time can be changed as follows:

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“)
- Select *Unlocking time* (confirm with „“)
- Screen informing about current setting appears (NOW= X, where X is a number within 1 to 60 and means lock unlocking time in seconds) to change, press „“
- Message appears „SWITCH TO“, in order to enter time in seconds (time within 1 – 60 s) and confirm with key „“ (cancel with „#“).

Unlocking by general code

Activating this option allows unlocking the gate with general codes.

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“)
- Select *Unlocking by general code* (confirm with „“)
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with .

Unlocking by general tag¹⁴

Activating this option allows unlocking the gate with general RFID tags.

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“),
- Select *Unlocking by general tag* (confirm with „“),
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with .

Auxiliary unlocking

Activation of this function allows unlocking the gate using additional external button connected to the panel (see illustration 14).

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“)
- Select *Auxiliary unlocking* (confirm with „“)
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with ".

Auxiliary unlocking time

Auxiliary unlocking time can be changed as follows:





- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „“)
- Select *Electric lock settings* (confirm with „“)
- Select *Auxiliary unlocking time* (confirm with „“)
- Screen informing about current setting appears (NOW= X, where X is a number within 1 to 30 and means lock unlocking time in seconds) to change, press „“
- Message appears „SWITCH TO“, in order to enter time in seconds (time within 1 – 30 s) and confirm with key „“ (cancel with „#“).

Breakdown procedure

Activation of this procedure allows unlocking the electric lock in case of handsets line short-circuit. To change the settings:

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „“)

¹⁴ Applies to Optima 255RV2

- Select *Electric lock settings* (confirm with „“)
- Select *Emergency procedure* (confirm with „“)
- Message informing about current setting appears (ENB or DIS), to change, press „“
- Message appears „SWITCH TO“, and using the arrows (up or down) select the required setting and confirm with .

The panel automatically recognizes the handsets line short-circuit condition by displaying proper message. If the option „*Emergency procedure*“ is active, depressing any key unlocks the electric lock for time according to individual settings.

5.3.3 Relay settings

Synchronize with lock

All settings assigned to the electric lock are copied to relay settings, thus relay acts identically as the electric lock. Upon deactivation of this option, option applying to relay are restored.

Unlocking time – (see electric lock settings)

Unlocking by general code– (see electric lock settings)

Unlocking by general tag – (see electric lock settings)

Auxiliary unlocking – (see electric lock settings)

Auxiliary unlocking time – (see electric lock settings)

Breakdown procedure – (see electric lock settings)

Relay enables connecting additional entry electric lock or other device to the panel meeting the below parameters:

- maximum value of current and voltage should not exceed: 1A 24VAC/DC or 12A 125VAC

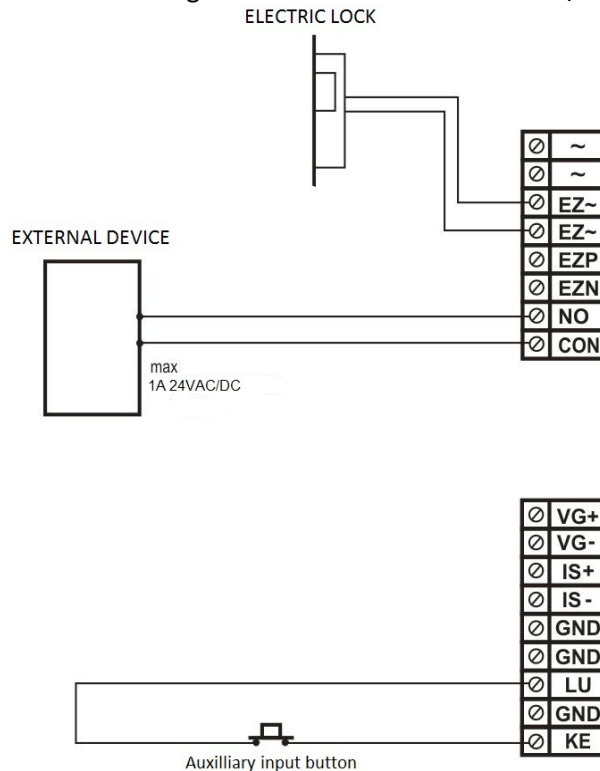












Figure 14: Connecting the relay output, electric lock and auxiliary button

Relay settings can be changes analogically to the electric lock settings in the menu:










Settings → *General settings* → *Relay settings* , except lock sound settings and magnetic lock mode. Additional benefit is the option to set this element to "Synchronize with lock". Independent from previous relay settings, this mode allows using the electric lock settings. Current settings of the relay are saved (until deactivation of this mode) and not used. Relay starts to act as electric lock.

To change the settings:

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „”)
- Select *Relay settings* (confirm with „”)
- Select *Synchronize with lock* (confirm with „”)
- Message informing about current setting appears (ENB or DIS), to change, press „”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with ”.










5.3.4 General unlocking time

Allows changing general unlocking codes,

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „”)
- Select *General unlocking codes* (confirm with „”)
- Using arrows, select the code to be changed (confirm with „”)
- The message appears "SWITCH TO". Enter new general code and confirm with „”.



5.3.5 General RFID tags¹⁵








Edition of RFID tags, selection and deletion of one of the current tags or after applying the tag, ask whether to add the tag.

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „”)
- Select *General RF tags* (confirm with „”)
- Apply RF tag to the reader in order to add the tag (confirm with „”)
- To delete a tag, select it using arrows (up or down) and press „”





5.3.6 Outdoor panel settings

Dialling after  confirmation

If option is enable dialling takes place only after pressing the key „”. If option is disable dialling takes place after 3s after entering the flat number or after pressing the key „”











- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „”)
- Select *Outdoor panel settings* (confirm with „”)

¹⁵ Applies to Optima 255RV2

- Select *Dialling after*  confirmation (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .











Keyboard sound

Activates or deactivates keyboard sound,

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „  ”)
- Select *Outdoor panel settings* (confirm with „  ”)
- Select *Keyboard sound* (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .











Keyboard multi-tone

Pressing the keys generates DTMF tones

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „  ”)
- Select *Outdoor panel settings* (confirm with „  ”)
- Select *Keyboard multi-tone* (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .

Relay key

Activation of relay together with each activation of the panel keyboard illumination

- Enter the menu *Settings* (    code )
- Select *General settings* (confirm with „  ”)
- Select *Outdoor panel settings* (confirm with „  ”)
- Select *Relay key* (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .

When this option is active, pressing any key in the panel stand-by mode (panel switches to stand-by mode after a while of inactivity) activates the relay together with entry phone keyboard illumination; relay is activated for time set in the relay settings.

Detached house

Change of a welcome message.

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „ ”)
- Select *Outdoor panel settings* (confirm with „ ”)
- Select *Detached house* (confirm with „ ”)
- Message informing about current setting appears (ENB or DIS), to change, press „ ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .

When this option is active, welcome message displayed by the panel is as follows:

„ENTER NO 1 AND WAIT” or „ENTER NO 1 AND PRESS ” (see 5.3.6 *Dialling after confirmation*)

5.3.7 Tenants list buttons

Mapping 12 buttons of OP-J4 modules to physical addresses of handsets. Optima panels allow connecting up to three 4-button dialling modules OP-J4. Each module has four buttons which can be attributed the selection of any physical address of handset. Handset address are assigned to ordinal numbers of OP-J4 modules (see „*OP-J4 four-button dialling selection module – installation manual*”)

- Enter the menu *Settings* (code)
- Select *General settings* (confirm with „ ”)
- Select *Tenants list buttons* (confirm with „ ”)
- Using arrows (up or down), select the number code to be edited (confirm with „ ”)
- Message informing about current handset number assigned to the button appears, to change, press „ ”
- Message appears "SWITCH TO", enter correct handset physical address and confirm with " ”.

5.4 Individual settings

!




Both in the individual settings as well as in enable edition options - when "Save?" appears on the display - using arrows (up, down), it is possible to select the following options: "Save for the group..." and "Save for all users".

5.4.1 Ring and talking

Ring tone












Dialling ring tone is selected from outdoor panel. 7 ring tones available.

- Enter the menu *Settings* (code)
- Select *Individual settings* (confirm with „ ”)
- Select *Ring and talking* (confirm with „ ”)
- Select *Main ring* (confirm with „ ”)
- Select flat number (confirm with „ ”)

- Screen informing about current setting appears (FOR NO X / RING Y, where X is a number within 1 to 255 and means user physical number, Y is the number of ring), to change, press „”
- Using the arrows (up or down) select the required setting and confirm with „”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”

Ring loudness












Change of loudness takes place after selecting the loudness level within the range 1 do 3.

- Enter the menu *Settings* (code)
- Select *Individual settings* (confirm with „”)
- Select *Ring and talking* (confirm with „”)
- Select *Ring loudness* (confirm with „”)
- Select flat number and confirm with
- Screen informing about current setting appears (FOR NO X / LOUDNESS Y, where X is a number within 1 to 255 and means user physical number, Y is the level of loudness of ring), to change, press „”
- Using the arrows (up or down) select the required setting and confirm with „”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”

!	Ring loudness setting has effect only on handsets. Has no effect on video monitors OP-VM
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Ringing time








Time the handset rings.

- Enter the menu *Settings* (code)
- Select *Individual settings* (confirm with „”)
- Select *Ring and talking* (confirm with „”)
- Select *Ringing time* (confirm with „”)
- Select flat number and confirm with
- Screen informing about current setting appears (FOR NO X / = Y, where X is a number within 1 to 255 and means user physical number, Y is the ringing time within 1 to "pick up time" set in the general settings), to change, press „”,
- Enter required value and confirm with „”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”
-

Handset as door ring

Deactivates sound (deactivated microphone and loudspeaker in the housing), only dialling and unlocking the electric lock is possible.













- Enter the menu *Settings* (code)

- Select *Individual settings* (confirm with „”)
- Select *Ring and talking* (confirm with „”)
- Select *Handset as door ring* (confirm with „”)
- Select flat number (confirm with „”)
- Message informing about current setting appears (ENB or DIS), to change, press „”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with ”.
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”

5.4.2 Electric lock unlocking













Unlocking from handset

Permit to unlock the electric lock using handset.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „”)
- Select *Electric lock unlocking* (confirm with „”)
- Select *Unlocking from handset* (confirm with „”)
- Select flat number (confirm with „”)
- Message informing about current setting appears (ENB or DIS), to change, press „”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with ”.
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”

Unlocking by RF tag¹⁶













Permit to unlock the electric lock using RF tag.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „”)
- Select *Electric lock unlocking* (confirm with „”)
- Select *Unlocking by RF tag* (confirm with „”)
- Select flat number (confirm with „”)
- Message informing about current setting appears (ENB or DIS), to change, press „”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with ”.
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „”

¹⁶ Applies to Optima 255RV2













Unlocking by code

Permit to unlock the electric lock using code.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „  ”)
- Select *Electric lock unlocking* (confirm with „  ”)
- Select *Unlocking by code* (confirm with „  ”)
- Select flat number (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „  ”













RFID tag usage confirmation¹⁷

Signals in the selected handset using a sound that individual RF tag was used.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „  ”)
- Select *Electric lock unlocking* (confirm with „  ”)
- Select *RFID tag usage confirmation* (confirm with „  ”)
- Enter flat number (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „  ”

Entry code usage confirmation












Signals in the selected handset using a sound that individual unlocking code was used.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „  ”)
- Select *Electric lock unlocking* (confirm with „  ”)
- Select *Entry code usage confirmation* (confirm with „  ”)
- Select flat number (confirm with „  ”)
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with .
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „  ”

¹⁷ Applies to Optima 255RV2

Wrong code usage confirmation

Signals in the selected handset using a sound that erroneous unlocking code was used.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „  ”)
- Select *Electric lock unlocking* (confirm with „  ”)
- Select *Wrong code usage confirmation* (confirm with „  ”)
- Select flat number and confirm with
- Message informing about current setting appears (ENB or DIS), to change, press „  ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with  .
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „  ”

5.4.3 Relay activation (see electric lock unlocking)












If the *Synchronize with lock* mode is not activated in the general settings, then the following settings are active. In other case, change of these options is blocked.

- Unlocking from handset
- Unlocking by secondary button
- Unlocking by RF tag
- Unlocking by code
- RFID tag usage confirmation
- Entry code usage confirmation
- Wrong code usage confirmation

Enabling the option *Unlocking by secondary button* makes possible to activate the embedded relay by gate button on the OP-VM videomonitor or secondary button on TK-7 OP2 handset. After selecting ENB, pressing the gate unlocking button on the videomonitor or secondary button on TK-7 OP2 handset during picked up dialling, activates the panel relay (NO CON outputs).

5.4.4 Entry code

Changing the electric lock unlocking code for the number, user must enter current code, fitter does not.

- Enter the menu *Settings* (    code )
- Select *Individual settings* (confirm with „  ”)
- Select *Entry code* (confirm with „  ”)
- Select flat number (confirm with „  ”)
- Current entry code for a given flat appears (to change, press “  ”)
- Enter new unlocking code and confirm with „  ”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „  ”

5.4.5 RFID tags edition¹⁸

RF tags editing, adding and deleting.

- Enter the menu *Settings* (* * * * code *)
- Select *Individual settings* (confirm with „ * ”)
- Select *RFID tags edition* (confirm with „ * ”)
- Select flat number (confirm with „ * ”)
- Apply RF tag to the reader in order to add the tag (confirm with „ * ”),
- To delete a tag, select it using arrows (up or down) and press „ * ”



RF tags editing, together with assigning RF tags to individual flats is also possible from the PC level using Optima PC software.

5.4.6 Turn off handset

Turns the handset off (panel does not dial, etc.).

- Enter the menu *Settings* (* * * * code *)
- Select *Individual settings* (confirm with „ * ”)
- Select *Turn off handset* (confirm with „ * ”)
- Select flat number (confirm with „ * ”)
- Message informing about current setting appears (ENB or DIS), to change, press „ * ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with „ * ”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „ * ”

5.4.7 Activate office mode

Activation of this option allows automatically open the electric lock at the moment of selecting flat number, if the handset receiver is put down.

- Enter the menu *Settings* (* * * * code *)
- Select *Individual settings* (confirm with „ * ”)
- Select *Activate office mode* (confirm with „ * ”)
- Select flat number (confirm with „ * ”)
- Message informing about current setting appears (ENB or DIS), to change, press „ * ”
- Message appears „SWITCH TO”, and using the arrows (up or down) select the required setting and confirm with „ * ”
- Screen “SAVE?” appears, using the arrows (up or down) it's possible to select “SAVE FOR ALL USERS” or “SAVE FOR GROUP...” option and next to accept press „ * ”











¹⁸ Applies to Optima 255RV2

5.5 Enable/Disable edition

Administrator enables or disables edition of individual parameters by user.

All enable edition related settings can be set similarly - that is why only an example of such situation will be explained. Edition by user of the parameter "Local ring" in submenu "Ring and talk" will be disabled.

Example:

- Enter the menu *Settings* (    code )
- Select *Enable/Disable edition* (confirm with „  ”)
- Select *Ring and talking* (confirm with „  ”)
- Select *Ring tone* (confirm with „  ”)
- Select flat number and confirm with
- Screen informing about current setting appears (Enable edit/ Disab.edit.), to change, press „  ”
- Message appears „ENABLE EDITION" or "DISABLE EDITION", and using the arrows (up or down) select the required setting and confirm with „  ”.

!

Both in the individual settings as well as in enable edition options - when "Save?" appears on the display - using arrows (up, down), it is possible to select the following options: "Save for the group..." and "Save for all users".

5.5.1 Ring and talk

Enable / disable edition by users of the following parameters:

- Ring tone
- Ring loudness
- Ringing time
- Handset as door ring

5.5.2 Electric lock unlocking

Enable / disable edition by users of the following parameters:

- Unlocking from handset
- Unlocking by RF tag
- Unlocking by code
- RF tag usage conformation
- Entry code usage conformation
- Wrong code usage confirmation

5.5.3 Relay activation

Enable / disable edition by users of the following parameters:

- Unlocking from handset
- Unlocking by RF tag
- Unlocking by code
- RF tag usage conformation
- Entry code usage conformation
- Wrong code usage confirmation

5.5.4 Entry code

Enable / disable edition by users of their individual access codes.

5.5.5 RF tags¹⁹

Enable / disable edition by users of their individual RF tags.

5.5.6 Turn off handset

Enable / disable edition by users of the handset turn off option.

5.5.7 Activate office mode

Enable / disable edition by users of the office mode option.

5.5.8 Enable all

Enables edition of all parameters by users.

5.5.9 Disable all

Disables the user option to edit all settings. If disabled all, upon attempt to enter user menu, the following message should appear "NOT AVAILABLE". Factory settings


Having selected in the menu SETTINGS->DEFAULT SETTINGS ->DEFAULT ALL SETTINGS, panel settings are as follows:

- default numeration 1 - 255,
- default service code (generated based on the serial number),
- default general codes (generated based on the serial number),
- default individual codes (generated based on the serial number),
- no service RF tags,
- no general RF tags,
- no individual RF tags,

Remaining default settings:

- general settings:
 - talking settings
 - talking time = 45 s,
 - dialling time = 45 s,
 - ringing time = 35 s,
 - picked up ringing time = 15s,
 - redirect unused No = NONE
 - electric lock settings
 - electric lock buzz = ENB,
 - magnetic lock mode = DIS,
 - unlocking time = 3s,
 - unlocking by general code = ENB,
 - unlocking by general tag = ENB,
 - auxiliary unlocking = ENB,
 - auxiliary unlocking time = 4s,
 - breakdown procedure = ENB,
 - relay settings

¹⁹ Applies to version OPTIMA

- synchronize with lock = DIS,
- unlocking time = 3s,
- unlocking by general code = ENB,
- unlocking by general tag = ENB,
- auxiliary unlocking = DIS,
- auxiliary unlocking time = 4s,
- breakdown procedure = ENB,
- outdoor panel settings
 - dialling after  confirmation = ENB,
 - keyboard sound = ENB,
 - keyboard multi-tone = DIS,
 - detached house = DIS.
- individual settings
 - ring and talking
 - ring tone = 3,
 - ring loudness = 4,
 - handset as door ring = DIS,
 - unlocking the lock
 - unlocking from handset = ENB,
 - unlocking by RF tag = ENB,
 - unlocking by code = ENB,
 - RF tag usage confirmation = ENB,
 - entry code usage confirmation = ENB,
 - wrong code usage confirmation = ENB,
 - relay unlocking
 - unlocking from handset = ENB,
 - unlocking by RF tag = ENB,
 - unlocking by code = ENB,
 - RF tag usage confirmation = ENB,
 - entry code usage confirmation = ENB,
 - wrong code usage confirmation = ENB,
 - turn off handset = DIS,
 - activate office mode = DIS,
- enable edition - as default, edition of all individual settings is disabled,

5.6 Safety principles during installation and operation

- Before opening the panel housing, disconnect the power supply.
- Before any attempt to connect external system elements to terminals of the panel, check the connection correctness (correct terminals, polarity, etc.).
- Avoid short-circuits between the panel terminals
- Do not expose the panel to chemical substances that could react with metals, plastics, etc.
- Apply general safety procedures during installation.

5.7 Troubleshooting

During talking, you can hear peep or the peep can be heard while putting down the handset receiver	At first, reduce sensitivity of panel microphone (MICROPHONE potentiometer) or reduce panel loudness (LOUDNESS potentiometer). If the situation concerns a specific handset, try to adjust the handset potentiometer (not available in each model). Alternatively, try to set the balance (BALANCE potentiometer).
During the talk, you can hear power grid hum	Too low central unit supply. Increase the supply (do not exceed 15VAC) Long supply cables. Increase the supply cables cross-sections. Too low output power of the central unit power supply. Increase the power supply.
Panel displays the message: <ERR. EEPR>	Defective central unit internal memory. Contact service facility.
Panel displays the message: <ERR. RFID>	Defective RFID reader system. Contact service facility.
Panel displays the message: <ERR. KEYB.>	Keyboard defective. Contact service facility.
Panel displays the message: <SHORT.LINE.>	Shorted handsets line. Eliminate the short-circuit. Note: Having eliminated the shorting, panel may still display the line shorting message for 10 s
Use of the general / individual code or RFID tag does not open the electric lock, even though there is no information on any erroneous code or not logged RFID tag.	Check if the permit to open the electric lock with general / individual code or RFID code is set.
After selecting a flat, the panel displays the following message: NUMBER NOT FOUND	Selected number is not added to operated ranges (see 5.1.2)
Having selected a flat, the panel instantaneously returns to displaying the main message	The following is set: zero dialling time in general settings, or zero ringing time in individual settings (see 5.3.1), or zero ringing time for the dialled physical number of handset in individual settings (see 5.4.1),
Handset No 1 is sometimes dialled when dialling other handset	Problem occurring in some entry phone systems. Change the handset No 1 addressing to other (see 5.1.2)

Addendum A. Power supply selection table

MODULE	POWER SUPPLY CHOICE	VOLTAGE/ CURRENT
AUDIO SYSTEM		
OPTIMA SL255(R) / OPTIMA 255(R)V2	AC20	14VAC / 1,0A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,5A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-J4	AC20	14VAC / 1,1A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-LPM	AC20	14VAC / 1,1A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-LPM + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,6A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-LPM + OP-J4	(AC20 + AC20) or AC40	14VAC / 1,1A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-J4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,6A
OPTIMA SL255(R) / OPTIMA 255(R)V2 + OP-LPM + OP-J4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,7A
VIDEO SYSTEM		
OPTIMA SL255RC	AC20	14VAC / 1,1A
OPTIMA SL255RC + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,8A
OPTIMA SL255RC + OP-J4	(AC20 + AC20) or AC40	14VAC / 1,2A
OPTIMA SL255RC + OP-LPM	(AC20 + AC20) or AC40	14VAC / 1,2A
OPTIMA SL255RC + OP-H4	(AC20 + AC20) or AC40	14VAC / 1,3A
OPTIMA SL255RC + OP-H4 + OP-VP4	(AC20 + AC20) or AC40	14VAC / 1,4A
OPTIMA SL255RC + OP-H4 + OP-J4	(AC20 + AC20) or AC40	14VAC / 1,4A
OPTIMA SL255RC + OP-H4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 2,0A
OPTIMA SL255RC + OP-H4 + OP-LPM	(AC20 + AC20) or AC40	14VAC / 1,4A
OPTIMA SL255RC + OP-LPM + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,8A
OPTIMA SL255RC + OP-LPM + OP-J4	(AC20 + AC20) or AC40	14VAC / 1,2A
OPTIMA SL255RC + OP-J4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,8A
OPTIMA SL255RC + OP-LPM + OP-J4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 1,9A
OPTIMA SL255RC + OP-H4 + OP-J4 + OP-EL	(AC20 + AC20) or AC40	14VAC / 2,0A
OPTIMA SL255RC + OP-H4 + OP-J4 + OP-LPM	(AC20 + AC20) or AC40	14VAC / 1,4A
OPTIMA SL255RC + OP-H4 + OP-EL + OP-LPM	(AC20 + AC20) or AC40	14VAC / 2,0A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-LPM	(AC20 + AC20) or AC40	14VAC / 1,5A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-J4	(AC20 + AC20) or AC40	14VAC / 1,5A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-EL + OP-J4	(AC20 + AC20) or AC40	14VAC / 2,2A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-EL + OP-LPM	(AC20 + AC20) or AC40	14VAC / 2,2A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-J4 + OP-LPM	(AC20 + AC20) or AC40	14VAC / 1,6A
OPTIMA SL255RC + OP-H4 + OP-VP4 + OP-EL + OP-J4 + OP-LPM	(AC20 + AC20) or AC40	14VAC / 2,3A
OP-VR4 (centralized power supply 4 videomonitors)	DR-30-15	15VDC / 2A
OP-VR4 (local power supply for 4 videomonitors)	DC15-1,2A	15VDC / 0,1A
OP-VM2 (single videomonitor local power supply)	DC15-1,2A	15VDC / 0,6A
OP-VM4 (single videomonitor local power supply)	DC15-1,2A	15VDC / 0,4A
OP-VM7 (single videomonitor local power supply)	DC15-1,2A	15VDC / 0,4A

DESCRIPTION

OPTIMA SL255(R) / OPTIMA 255(R)V2 – Digital entry phone panel for multi-entry system(SLAVE)/ single entry system

OPTIMA SL255RC – Digital entry phone video panel for multi-entry system(SLAVE)

OP-LPM – small list of tenants module (to print)

OP-J4 – four-button selection module

OP-EL – electronic list of tenants

OP-H4 – four-channel communication module

OP-VP4 – 4 – input video signal distributor

OP-VR4 – 4 – channel video signal distributor

OP-VM2 videomonitor 2,4"

OP-VM4 videomonitor 4"

OP-VM7 videomonitor 7"

AC20 – 14VAC 20VA power supply

AC40 – 14VAC 40VA power supply

CAUTION! Table selection of power supplies not included the issue of voltage drops on the supply lines.

Addendum B. User entry codes form

Flat no:
Entry code:

Flat no:
Entry code:

Flat no:
Entry code:

Flat no:
Entry code:

Flat no:
Entry code:

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Entry code:

Flat no:
Entry code:

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According to the act of 29 July 2005 on used waste electronic and electrical equipment as well as the act of 24 April 2009 on batteries and accumulators, it is forbidden to dispose waste identified with the symbol of crossed out trash can with other household waste. User intending to dispose the product is obligated to deliver batteries and waste electrical and electronic equipment to a recycling company. To ensure that the aforementioned acts are observed, we have concluded separate agreement with the Organization for Waste Electronic and Electric Equipment Recovery – Biosystem Elektrorecykling.

