urmet
DOMUS

Mod.
1145

DS1145-019 **LBT8072**

COMBIPHONE OUT DOOR

Ref. 1145/1
Ref. 1145/2
Ref. 1145/4
Ref. 1145/14

USER MANUAL

TABLE OF CONTENTS

1 BASIC DESCRIPTION

1.1 FEATURES

- Modular system allows to connect max 64 buttons
- Voice communication is supplied only from telephone line
- Impulse and tone dialing (DTMF)
- Two 16digit numbers with each button (day/night mode)
- Day/night switching
- Possibility of the call extension by * or # choice
- Possible to connect two independent locks for door opening (DTMF activation)
- Possible use of 5 switch modes (e.g. camera, lighting, gradual opening)
- Two codes for hanging up the guard from telephone
- Two codes for door opening from telephone
- Optional number of rings before taking an incoming call
- Optional time among button pressing by code entry
- Optional time of hanging up when the choice is repeated
- Optional time before choice start
- Optional parameters of tone choice, length of Flash and Pause
- Possible programming by remote control
- Integrated heating of printed circuit for climatically hostile atmospheres installation
- Permanent lighting through visiting cards (optional power supply)
- Protection against static electricity

1.2 MODULE ASSEMBLY

The Door Guard structural elements are the basic modules with two (1145/2) or one (1145/1) buttons and extending button module 1145/4 and 1145/14 with four buttons.

1145/2

1145/1

1145/4
1145/14

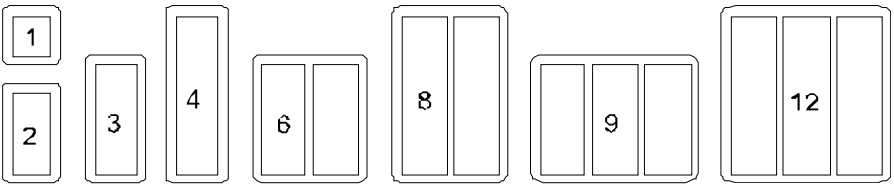
1145/62

1145/312

1145/612

1145/712

1145/52



Examples of frame configuration

1.3 MODULE FEATURES

NUDV Basic Module

The 1145 basic module is supplied in two variants, with two buttons 1145/2 and one button 1145/1.

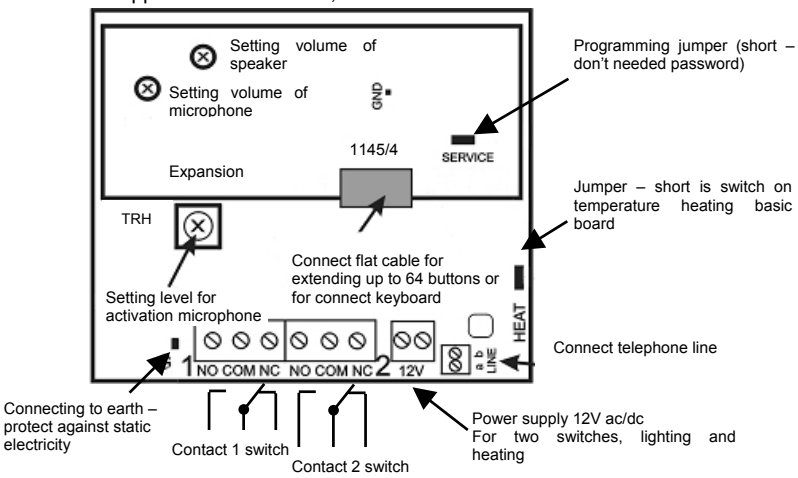


Fig. 1 Rear view of basic module

To ensure the basic function the terminal "a b LINE" can be connected to a PABX extension. It is connected in the same way as any telephone to any branch exchange to the maximum distance of **300m**. The guard's circuits are supplied from telephone line, so that nothing should be connected for voice communication.

If one or two switches are necessary to be used, the A.C. voltage of min. 10Vst - max. 15V or D.C. voltage of min. 12V to max. 18V must be energized to "**12V**" terminal. This source loading depends on number of modules, since it simultaneously serves feeding of lighting through visiting cards – at max. number of connected modules the demand will not exceed 300mA. This source can be also used for feeding of lock(s), and then it is necessary to consider the electrical lock demand. In practice the alternating feeder 12V/1A mostly meets these demands.

The connection of switch contact terminals is shown on fig. 1. The "**NO**" designation means an idle-disconnected contact, "**COM**" means a pin contact (middle) and "**NC**" means an idle-connected contact. The contacts of both switches are galvanically isolated each other and from other guard circuits.

The variants of connection are shown on fig. 2.

The "**G**" Faston 2.8mm necessary to connect the device to earthing.

The "**HEAT**" jumper serves the switching of board heating. This function requires the connection of 12V supply on "**12V**" marked terminal.

The "**EXPANSION**" marked connector serves the connection of extending modules by means of flat cable.

The "**PRG**" marked connector provides the guard adjustment from PC by means of serial cable (KAB) and serves to the service for diagnostics and new software load.

The "**SERVICE**" jumper serves to direct access to programming. It can be used, for example by absence of password for programming.

Note: *It's better to connect the device on the expansion not interested to the emergency condition (when the power supply is not connected)*

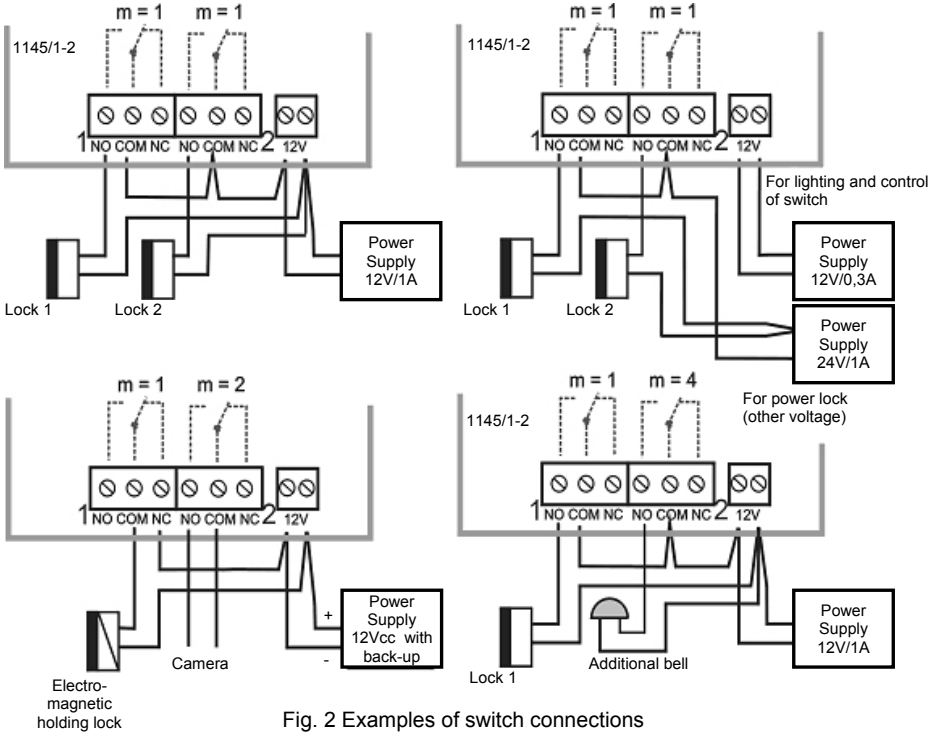


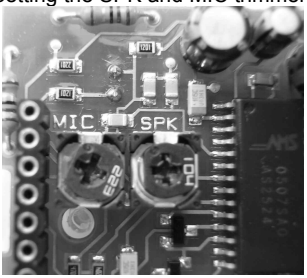
Fig. 2 Examples of switch connections

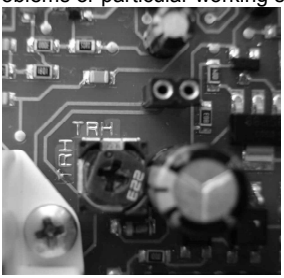
Setting voice communication

Position trimmers are presetting from manufacture and in majority case agree with, therefore changes setting altering only in necessary case.

Trimmer "MIC" be instrumental to setting loudness of microphone, trimmer "SPK" be instrumental to setting loudness loudspeaker. In this version is big reserve in gain, therefore isn't recommended adjust more than on half, typical is in 1/3 from minimum gain. Trimmer "TRH" be instrumental to setting levels activation of microphone, it means, so as doorphone "non whoop" owing to acoustic loop so selection, which direction has priority, whether from microphone, or into loudspeaker. Level from which volume with "switch on" direction from microphone doorphone setting trimmer „TRH". This setting interact level surrounding noise and setting gain of microphone „MIC".

Progress of setting: setting the TRH, SPK and MIC trimmer like in figure (base setting) and test the comunication. Setting the SPK and MIC trimmer if there are problems or particular working situation.





Other Setting

If the audio level of the telephone is too low set the MIC trimmer in hour sense until the level is good.
If the audio level of the telephone is too high set the MIC trimmer in anti hour sense until the level is good.
If the audio level of Combiphone Out Door (1145/X) speaker is too low set the SPK trimmer in hour sense until the level is good
If the audio level of Combiphone Out Door (1145/X) speaker is too high or distorted set the SPK trimmer in anti hour sense until the level is good
If after these setting the audio level is not satisfactory set the TRH trimmer in hour sense.

Note: *In case of regulation of TRH trimmer it could be necessary to set again the SPK and MIC trimmer.*

4 Buttons Module 1145/4, 1145/14

This module is supplied in two designs. The **Ref.1145/4** module has four buttons and includes the electronics to be connected to the basic module or to previous **Ref.1145/4** module. This module is only connected by flat cable – buttons and lighting through is already interconnected, the flat cable connection is facilitated by connector locks, preventing from rotation, but to keep the connection routing is imperative.
The **Ref.1145/14** module is always connected to previous **Ref.1145/4**. The connection is not prepared and should be done by conductors (see system installation).

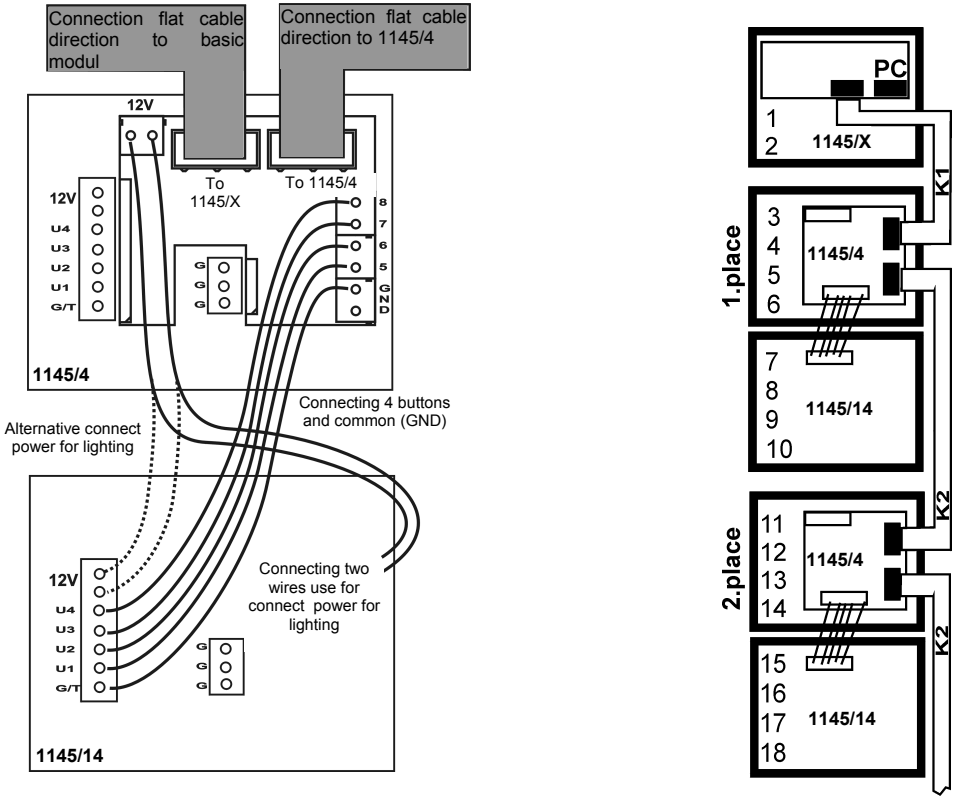


Fig. 3 Connection of 1145/4 to 1145/14 and connection of modules

1.4 INSTALLATION OF GUARD ASSEMBLY

Installation on Plaster

By installation on plaster the only compact box 1145/5X - Rain-Protective Cover 1145/3XX is used, which will supersede all mechanical parts. The installation is made by screwing to the wall by means of dowels. See 1145/311 on figure.

Flush-Mounted Installation

The 1145/5X mounting box is built-in wall. Be careful in orientation of assembling holes when nearly 1145/51 square box is used – it must be in vertical axis.

The Protecting Frame (provides overlapping of unevenness after mounting box walling-in) and Canopy (necessary for installation in external areas) form other accessories for flush-mounted installation. When installed in surroundings with possible water condensation (temperature changes) or rain, it is recommended to connect the jumper on basic module – heating ON.

The board heating has two positive functions partly it heats up the electronics in winter and partly avoids water condensation occurs on basic guard board.

2 ALL-PURPOSE GUARD OPERATION

2.1 SIGNALING OVERVIEW

The all-purpose guard signals an acoustic conditions they may occur during operation. Another signaling can be done by means of red LED (placed under microphone hole). You can listen the signaling samples in Nset setting program.

Condition	Tones	Tone frequency	LED
Line lifting up		425-850-1275	glows
Line hanging up		1275-850-425	goes out
Report after calling		425-850-1275	glows
Command confirmation from phone		425	
Dialing	DTMF/Pulse		goes out
Call			glows
Notice about call end		1275	glows
Entry to programming from phone		850	glows
Programming from phone		mod. 850	glows
Parameter confirmation			glows
Connection to line (Reset)		1275-850-1275	blinks
Error (anything, if unsuitable)		425….	
Empty memory (no progr. numb.)		850-1275-1700…	

2.2 COMBI OUT DOOR

The Combi out door is influenced partly by used guard assembly and partly by setting of guard parameters (see chapter “Parameter Overview”).

2.2.1 Guard

The guard buttons are provided by nameplates or positions of persons inside the object. The incoming person will press the corresponding button, the guard will lift up the line neither immediately (the button is not the first number from code lock), or with delay (*parameter 53)* and after period given by *parameter 55* will dial the programmed phone number. The dialing number differs by choice mode, which is set in the guard (*parameter 47*):

- **Day/night** mode = being the guard in Day mode, so it is always dialing a number set in *parameter 1*, in Night mode, it is always dialing a number set in *parameter 2*. The mode switchover is set in *parameters 45,46*.
- mode of **second number group** = first press – it always dials a number set in *parameter 1*. By repeated press of the same button or detection of busy tone after dialing the guard will select the number from the second group (*parameter 2*). The next press of the same button again selects a number of the first group, etc.……

If a visitor presses the button after guard lifting up, so the guard will hang up for a period given by *parameter 54,* lift up the line and dial a new number. The number choice is carried out both tone (DTMF), and pulse dialing according to *parameter 41* setting.

2.3 CALL

2.3.1 Outgoing Call

The outgoing call is the call from guard (caused by visitor) to the telephone. After guard choice the telephone is ringing inside object and the lifting up will allow speaking to the visitor at door. It’s possible with DTMF code

- close the switch (*parameter 35*)
- change over the Day/Night modes (*parameters 45,46*)
- hang up (*parameter 43*).

The guard in 10 seconds before call end (*parameter 52*) will send a notice about call end and the call may be extended by sign selection (*parameter 42*). The telephone hanging up will end the call (the exchange is sending a busy tone on guard’s line and the guard also will hang up).

To end the call digit the default number 34 (parameter 43), if you don’t digit that number the call end will arrive from PABX if it recognize the tone or when the conversation time, setting from parameter 52 (1 minute default), will finish.

2.3.2 Incoming Call

The incoming call is the call from guard (caused by person inside object). After exchange number selection, where the guard is connected, the guard’s line is ringing and when set number of rings is over (*parameter 51*), the guard will lift up and it is possible to speak. The possibilities are the same as with outgoing call (Chapter 2.3.1).

Except the first 10 seconds, where extra "**#** and service password**"** (*parameter 44*) can be entered, the guard then will proceed with programming mode.
The other exception of incoming call is by connected “SERVICE” jumper. The guard after line lifting up proceeds then with programming mode (without service password).

To end the call digit the default number 34 (parameter 43), if you don’t digit that number the call end will arrive from PABX if it recognize the tone or when the conversation time, setting from parameter 52 (1 minute default), will finish.

3 PROGRAMMING OF PARAMETERS

3.1 PROGRAMMING THROUGH PHONE

3.1.1 Entry to Programming

The all-purpose door guard will be set to programming mode in two ways:

1. by **password** – hook off the telephone and dial a number, where the guard is connected. The guard will answer (you hear tone for answering – see Chapter 2.1 of complete manual) up to 10 sec dial #xxxx, where xxxx is the service number for entry to programming and if O.K., the registration tone to programming will sound and afterwards the programming tone is heard.

2. by "**SERVICE**" jumper – you will realize the connection with guard in the same way as in art. 1, but when the SERVICE jumper is connected, then the guard after answering directly comes to programming mode – you hear tone for answering, registration tone to programming and afterwards the programming tone is heard.

3.1.2 Programming of parameters

The initial state for programming is signaled by programming tone and the guard will come back to this state always after time expiration (5 seconds) even if the programming is not finished.
When programming two types of parameters will occur. Partly they are parameters with fixed length – the majority of them they are, then the programming is affirmed and the parameter is always recorded immediately after mandatory length fulfillment by acknowledge tone and partly the parameters with variable length (*parameter 1,2,32,33,34*), followed with confirmation and the recording of the parameter after inactivity period expires (5 sec). The only case with immediate recording of parameters is the fulfillment of max. number of recorded signs (numbers) – by parameters 1 and 2 it is 16, by parameters 32,33,34 it is 6.
If during programming you enter number (sign) not allowable by its extent then the guard immediately emits an error tone, the parameter will not be recorded nor changed, the guard will come to initial state and it is possible to repeat the parameter setting or program another parameter.
The guard stays inactive in programming mode for 34 seconds, then he will automatically hang up. By every dialing of DTMF tone this period is set up repeatedly. The selection of parameter 9 can also end the programming mode.

Note: *if you wish to keep the connection (extend the 34 seconds period) than the customer will think over the other setting, so pressing e.g.. 6, 7, 0, * or # form time to time will be sufficient and the guard immediately responds by error tone, but he will extend the period to hanging up..*

Note: *The # sign is not used by entering of 32,33,34 parameters can be used for immediate parameter entering.*

4 DESCRIPTION OF PARAMETERS

4.1 DIRECT DIALING – MEMORIES

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
1	**tt nn…**	No. **nn** under button **tt**	-	-	-

tt Button number (memory), always set in two-digit manner [01-64]

nn telephone number up to 16 digits, we want to store. To store other choice flags the assignment given in table is used.

mean.	choice
0 - 9	0 - 9
#	#
*	**
Flash	* #
Pause	* 0

The numbers stored in parameter 1 are the number of the **first group** or numbers of **Day** mode.

Neither basic setting nor settings per examples do not change or delete the stored numbers.

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
2	**tt nn…**	No. **nn** under button **tt**	-	-	-

tt Button number (memory), always set in two-digit manner [01-64]

nn telephone number up to 16 digits, we want to store. To store other choice flags the assignment given in table is used..

mean.	choice
0 - 9	0 - 9
#	#
*	* *
Flash	* #
Pause	* 0

The numbers stored in parameter 2 are the number of the **second group** or numbers of **Night** mode.

Neither basic setting nor settings per examples do not change or delete the stored numbers.

List of related parameters: ***41 45 46 47 48 49 57 58 59 50 81 82***

4.2 SWITCHES

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
31	**r m**	switch **r** works in **m** mode	11 21	11 22	11 25

r switch number [1-2]

m switch mode [for **r**=1 1-4 , for **r**=2 1-5]

m=1 **switch** mode – it will close on command or password for **ss** period (used for electrical locks, gate opening etc.)

m=2 **camera** mode – it will close by guard lifting up and open by hanging up.

m=3 **lighting** mode – it will close by guard lifting up and stay closed even for **ss** period after guard hanging up (the line is engaged for this period).

m=4 **switch** mode – it will close after button pressing and open after **ss** period (used for e.g. external bell or horn connections).

m=5 **gradual opening** mode – in this mode the only switch 2 will be set together with switch 1 set to mode 1. The switch 1 is activated for **ss** period, then the time **xx** is proceeding before switch 2 closing. Then the switch 2 is activated for **ss** period and afterwards the guard hangs up.

Note: *The only switch 1 can be activated from phone and all sequence started. Besides that the switch 2 can be separately activated from buttons by password.*

List of related parameters: ***32 33 34 35 36 37 38 8# 83***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
35	**r aa**	command **aa** from phone after **r** switch closing	155 266	155 266	155 266

r switch number [1-2]
aa command from phone after switch closing [2 digits]
The same command can be set for both switches, then they are activated at the same time. The advantage is to set the same command both for switch closing and command to guard hanging up (*parameter 43*) **aa=bb**.
List of related parameters: ***31 36 37 38 43 8# 83***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
36	**r ss**	**ss** period [sec] of **r** switch closing	105 205	102 202	105 205

r switch number [1-2]
ss duration of switch closing [2 digits 01-99]
List of related parameters: ***31 32 33 34 35 37 38 8# 83***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
37	**r p**	**r** switch control by incoming call	11 21	11 21	11 21

r switch number [1-2]
p parameter, if **p=1** allowed or **p=0** prohibited to control the switch during incoming call.
To prohibit the control during incoming call is important e.g. when using switch 2 in mode 1 for control of garage gate opening, when the electronics opens the gate and the gate is closed by car passage. Then the control from phone could undesirably cause the permanent gate opening (not closed – no car passage).
List of related parameters: ***31 35 8# 83***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
38	**xx**	**xx** period [sec] between switches 1 and 2 closing	10	10	15

xx – time between close switches 1 and 2 by **m=5** mode setting (gradual opening) [2 digits 01-99]
List of related parameters: ***31 32 33 34 35 36 37 8# 83***

4.3 BASIC PARAMETERS

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
41	**v**	choice type **v** – tone / pulse	0	0	0

v choice type **v=0** is DTMF tone choice, **v=1** is pulse choice
List of related parameters: ***1 2 8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
42	**z**	sign for call extension	*	*	*

z sign for call extension * or # (10sec before call end the guard will send a notice, then the call may be extended)
List of related parameters: ***52 8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
43	**g bb**	command for guard hanging up from phone	134 235	155 244	155 244

g command order [1-2] (two commands in order to hang up the guard using both switches)
bb command for guard hanging up from phone [2 digits]
List of related parameters: ***35 8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
44	**xxxx**	service password	0000	0000	0000

xxxx service password for entry to programming
List of related parameters: ***8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
45	**dd**	command for **DAY** switching	11	11	11
46	**nn**	command for **NIGHT** switching	10	10	10

dd command for **DAY** mode switching [2 digits]
nn command for **NIGHT** mode switching [2 digits]
Note: *The switchover to Day/Night mode remains set in guard even after line disconnection.*
List of related parameters: ***1 2 33 34 47 8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
47	**e**	mode of guard choice	1	1	0

e mode of guard choice **e=0** selects numbers of the first and second groups, **e=1** selects number per **Day/Night** guard mode.
List of related parameters: ***1 2 8# 84***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
48	**c**	keyboard connection	0	0	1

c **c=0** only NC-mode connected to the basic module

ATTENTION: This parameter setting will sharply influence whole guard function.
List of related parameters: ***1 2 32 33 34 47 49 53 8# 84***

4.4 TIME PARAMETERS

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
51	**q**	number of rings before guard call lifting up	2	1	2

q Number of incoming call rings, the guard lifts up among rings namely 2 sec. after detection **q** – times rings. The number can be set from 1 to 9.
List of related parameters: ***44 8# 85***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
52	**d**	max. call time	1	2	1

d – max. time, for which the guard is hanging up, this time can be extended during call by sign choice from telephone (* or #). Time setting is per table.
List of related parameters: ***42 8# 85***

time [min]	choice
0,5	0
1 - 9	1 - 9
15	*
30	#

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
53	**w**	time among button presses	2	2	2

w max. time [sec] among button presses [range 1-9]
Note: *switch closing – if time between two next presses is bigger than* ***w*** *time, the code is not evaluated correctly.*
List of related parameters: ***1 2 32 33 34 47 48 49 8# 85***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
54	**z**	time of hanging up when dialing repeated	2	2	2

z time [sec] for which the guard will hang up, before repeated dialing (button pressing during call or dialing, busy tone detection) [range 1-5]
List of related parameters: ***8# 85***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
55	**z**	time before dialing	1	1	1

z time [sec] after guard lifting up before dialing [range 1-5]. This time is different for each exchange, but most central exchanges usually manage to process dialing up to 2 seconds after line lifting up.
List of related parameters: ***8# 85***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
56	**h**	number of rings before hanging up	12	12	12

h after finishing the dialing it calculates number of KVT (ringing tones). If the number exceeds **h** value, it will hang up [range 04-99]. The dialing is repeated in case, when the dialing mode of 2 groups is set.
List of related parameters: ***47 8# 85***

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
57	**t**	DTMF tone duration (tone) choice	5 (100ms)	5 (100ms)	5 (100ms)

58	**m**	gap duration among DTMF tones	5 (100ms)	5 (100ms)	5 (100ms)
59	**f**	Flash duration	1 (100ms)	1 (100ms)	1 (100ms)
50	**p**	pause duration / interdigit gap	8 (800ms)	8 (800ms)	8 (800ms)

t DTMF tone duration is determined per formula:
(entered number + 5) x 10 = tone duration [ms] [range 1-0 i.e. 60-150ms]

m gap duration among DTMF tones is determined per formula:
(entered number + 5) x 10 = gap duration [ms] [range 1-0 i.e. 60-150ms]

f Flash duration is determined per formula:
entered number x 100 = Flash duration [ms] [range 1-6 i.e. 100-600ms]

p pause duration is determined per formula:
entered number x 100 = pause duration [ms] [range 5-0 i.e. 500-1000ms]
p time is simultaneously the duration of interdigit gap at pulse dialing.

List of related parameters: ***1 2 41 8# 85***

4.5 PRESETTING AND DELETING

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
8#	**#**	basic setting	executes		
8#	**1**	setting per exam. 1		executes	
8#	**2**	setting per exam. 2			executes

This setting does not influence **1** and **2** (numbers stored in memory)

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
81		deletes all numbers in group 1 (Day mode)			
82		deletes all numbers in group 2 (Night mode)			
83		basic setting only for parameters 3x	only 3..		
84		basic setting only for parameters 4x	only 4..		
85		basic setting only for parameters 5x	only 5..		

The parameters 81 and 82 will execute deleting of all numbers stored in memories for buttons.
The parameters 83 – 85 will execute a selective basic setting only for parameters starting with 3.. – 5..
ATTENTION the deleting is non-reversible !!!, It is then necessary to program it again.

4.6 PROGRAMMING TERMINATION

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
9		E N D			

After dialing **9** to programming tone the guard will hang up.

4.7 OVERVIEW OF PARAMETERS

Parameter	Value	Meaning	Basic	Exam.1	Exam.2
1	**tt nn…**	No. nn under button tt	-	-	-
2	**tt nn…**	No. **nn** under button **tt**	-	-	-
31	**r m**	switch **r** works in **m** mode	11 21	11 22	11 25
35	**r aa**	command **aa** from phone after **r** switch closing	155 266	155 266	155 266
36	**r ss**	**ss** period [sec] of **r** switch closing	105 205	102 202	105 205
37	**r p**	**r** switch control by incoming call	11 21	11 21	11 21
38	**xx**	**xx** period [sec] between switches 1 and 2 closing	10	10	15
41	**v**	choice type **v** – tone / pulse	0	0	0
42	**z**	sign for call extension	*	*	*
43	**g bb**	command for guard hanging up from phone	134 235	155 244	155 244
44	**xxxx**	service password	0000	0000	0000
45	**dd**	command for **DAY** switching	11	11	11
46	**nn**	command for **NIGHT** switching	10	10	10
47	**e**	mode of guard choice	1	1	0
51	**q**	number of rings before guard call lifting up	2	1	2
52	**d**	maximum call time	1	2	1
53	**w**	time among button presses	2	2	2
54	**z**	time of hanging up when dialing repeated	2	2	2
55	**z**	time before dialing	1	1	1
56	**h**	number of rings before hanging up	12	12	12
57	**t**	DTMF tone duration (tone) choice	5 (100ms)	5 (100ms)	5 (100ms)
58	**m**	gap duration among DTMF tones	5 (100ms)	5 (100ms)	5 (100ms)
59	**f**	Flash duration	1 (100ms)	1 (100ms)	1 (100ms)
50	**p**	pause duration / interdigit gap	8 (800ms)	8 (800ms)	8 (800ms)

8#	**#**	basic setting	executes		
8#	**1**	setting per exam. 1		executes	
8#	**2**	setting per exam. 2			executes
81		deletes all numbers in group 1 (Day mode)			
82		deletes all numbers in group 2 (Night mode)			
83		basic setting only for parameters 3x	only 3..		
84		basic setting only for parameters 4x	only 4..		
85		basic setting only for parameters 5x	only 5..		
9		E N D			

4.8 LIST OF PRESETTING PARAMETERS

parameter	bas. cast.	example 1	example 2
Switch 1 mode	lock m=1	lock m=1	lock m=1
Switch 2 mode	lock m=1	camera m=2	prog. m=5
Switch 1 activ. from phone	55	55	55
Switch 2 activ. from phone	66	66	66
Closing time of switch 1 and 2	5 sec	2 sec	5 sec
Con. by incoming call	allowed	allowed	allowed
Delay among ap. during oper.	10 sec	10 sec	15 sec
Choice	DTMF	DTMF	DTMF
Sign of call extension	*	*	*
Hanging up from phone 1 / 2	34 / 35	55 / 44	55 / 44
Service password	0000	0000	0000
Switching to day mode	11	11	11
Switching to night mode	10	10	10
Guard choice mode	Day/Night	Day/Night	2 groups
Number of rings of incoming call	2	1	2
Max. call time	1 min	2 min	1 min
Time among button presses	2 sec	2 sec	2 sec
Time of hanging up when dialing repeated	2 sec	2 sec	2 sec
Time before dialing	1 sec	1 sec	1 sec
Number of rings before hanging up	12	12	12
DTMF tone duration (tone) choice	100ms	100ms	100ms
Gap duration among DTMF tones	100ms	100ms	100ms
Flash duration	100ms	100ms	100ms
Pause duration / interdigit gap	800ms	800ms	800ms

Note: *The minimum setting and both examples can be customized by expected purchase of min. 10pcs of NUDV.*

5 TECHNICAL PARAMETERS

5.1 ELECTRICAL PARAMETERS

Parameter	Value	Conditions
Minimum line current	18mA	line answered
Minimum line voltage	18V	line hang up
Voltage on line while guard answers (VA characteristics)	< 8V < 12V	I = 20mA I = 60 mA
Leakage in hang up status	< 50uA	U = 60V
Impedance of line termination	Complex	line answered
Band width	300Hz – 3400 Hz	20 - 60mA
Impedance of ringing	> 2Kohm	25 – 60 Hz
Sensitivity of ringing detector	min. 10 – 25 V	
Pulse choice	40 / 60 ms	
Power supply of lighting through, switches and heating	12V d.c. ± 2V , 10-12V a.c. ± 2V	
Max. consumption of lighting through and heating	300mA	12Vss
Max. voltage of switch contact	48V	at I < 1A
Max. current of switch contact	2A	at U < 30 V
Operational temperature	- 20 to + 50°C	

5.2 MECHANICAL DIMENSIONS

Type of item	Dimension HxWxD [mm]			
	1 module	2 modules	3 modules	4 modules
Mount. Box 1145/5X	114x118x45	204x118x45	294x118x45	384x118x45
Fixing frame 1145/6X	119x125x12.6	209x125x12.6	299x125x12.6	389x125x12.6
Rain protective cover (on plaster) 1145/31X 1 column	151x157x79	241x157x79	331x157x79	421x157x79
Rain protective cover (on plaster) 1145/32X 2 columns	-	241x286x79	331x286x79	421x286x79
Rain protective cover (on plaster) 1145/33X 3 columns	-	-	331x415x79	421x415x79
flush -mounted with canopy 1145/61X 1 column	151x157x47	241x157x47	331x157x47	421x157x47
flush -mounted with canopy 1145/62X 2 columns	-	241x286x47	331x286x47	421x286x47
flush -mounted with canopy 1145/63X 3 columns	-	-	331x415x47	421x415x47
flush -mounted 1145/71X 1 column	148x151x2.5	238x151x2.5	328x151x2.5	418x151x2.5
flush -mounted 1145/72X 2 columns	-	238x280x2.5	328x280x2.5	418x280x2.5
flush -mounted 1145/73X 3 columns	-	-	328x409x2.5	418x409x2.5

6 TABLE FOR EASY PROGRAMMING

Complete the values in empty part of table you want to program. In double-frame part there are whole programming commands, so the programming is very simple and without errors. Furthermore such programmed values will be available for next changes in manual.

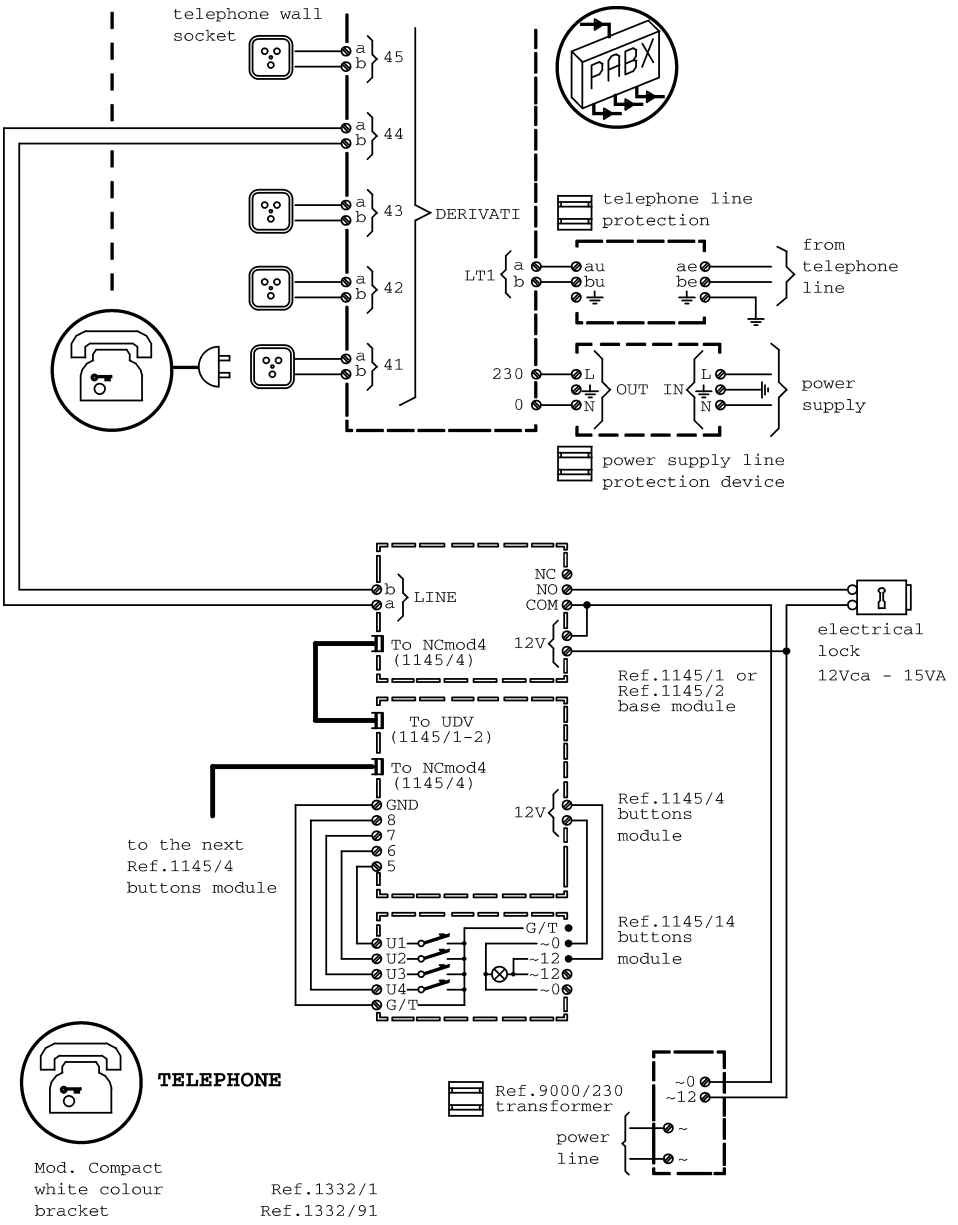
Meaning		Programming sequence		num. of point
Description	**Spec.**	**par.**	**Complete your values**	
Number under button **1**	Day/1gr.	**101**		16
Number under button **2**	Day/1gr.	**102**		16
Number under button **3**	Day/1gr.	**103**		16
Number under button **4**	Day/1gr.	**104**		16
Number under button **5**	Day/1gr.	**105**		16
Number under button **6**	Day/1gr.	**106**		16
Number under button **7**	Day/1gr.	**107**		16
Number under button **8**	Day/1gr.	**108**		16
Number under button **9**	Day/1gr.	**109**		16
Number under button **10**	Day/1gr.	**110**		16
Number under button **11**	Day/1gr.	**111**		16
Number under button **12**	Day/1gr.	**112**		16
Number under button **1**	Night/2gr.	**201**		16
Number under button **2**	Night/2gr.	**202**		16
Number under button **3**	Night/2gr.	**203**		16

Number under button **4**	Night/2gr.	**204**		16
Number under button **5**	Night/2gr.	**205**		16
Number under button **6**	Night/2gr.	**206**		16
Number under button **7**	Night/2gr.	**207**		16
Number under button **8**	Night/2gr.	**208**		16
Number under button **9**	Night/2gr.	**209**		16
Number under button **10**	Night/2gr.	**210**		16
Number under button **11**	Night/2gr.	**211**		16
Number under button **12**	Night/2gr.	**212**		16
Switch **1** works in mode	m=1 - 4	**311**		1
Switch **2** works in mode	m=1 - 5	**312**		1
Clos. of switch **1** fr. phone		**351**		2
Clos. of switch **2** fr. phone		**352**		2
Closing time of switch **1**	[sec]	**361**		2
Closing time of switch **2**	[sec]	**362**		2
Sw. cont.**1** by incoming call	1 / 0	**371**		1
Sw. cont.**2** by incoming call	1 / 0	**372**		1
Time between 1 and 2 switch closing	[sec]	**38**		2
Tone/pulse tone choice	1 / 0	**41**		1

Sign of call extension	* / #	**42**		1
Guard hang. up from phone	1	**431**		2
Guard hang. up from phone	2	**432**		2
Service password		**44**		4
Comm. to **DAY** switching		**45**		2
Comm. to **NIGHT** switching		**46**		2
Guard choice mode	1 / 0	**47**		1
Keyboard connection	0/1/2/3	**48**		1
Keyboard mode	1 / 0	**49**		1
Number of rings for ringing		**51**		1
Maximum call duration	[min]	**52**		1
Time among button press.	[sec]	**53**		1
Hang. up time when dialing repeated	[sec]	**54**		1
Time before dialing start	[sec]	**55**		1
Num. of rings bef. hang. up		**56**		2
Duration of dialing tone	(n+5)x10	**57**	ms	1
Gap among DTMF tones	(n+5)x10	**58**	ms	1
Flash duration	nx100	**59**	ms	1
Pause durat. / interdigit gap	nx100	**50**	ms	1

7 WIRING DIAGRAM

SC104-0076



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