

# iCe: DOOR ENTRY UNIT



1, 2 OR 4 BUTTONS



## INSTALLATION MANUAL



## Contents

---

<b>1</b>	<b>FOR YOUR SAFETY .....</b>	<b>4</b>
<b>2</b>	<b>INTRODUCTION .....</b>	<b>4</b>
<b>3</b>	<b>FEATURES AND APPLICATIONS.....</b>	<b>4</b>
<b>4</b>	<b>START UP .....</b>	<b>5</b>
<b>5</b>	<b>LED DISPLAY .....</b>	<b>6</b>
<b>6</b>	<b>CLEAR ALL PROGRAMMED DATA FROM ICE-ENTRY UNIT .....</b>	<b>6</b>
<b>7</b>	<b>CONNECTION DIAGRAM .....</b>	<b>7</b>
<b>8</b>	<b>PROGRAMMING ICE-ENTRY UNIT .....</b>	<b>7</b>
<b>9</b>	<b>THE ICE-ENTRY UNIT PARAMETERS .....</b>	<b>8</b>
9.1	ALARM SUPPORT .....	8
9.2	OUTPUT MANAGEMENT .....	11
9.3	SECURITY LEVEL - SL.....	12
9.4	PREPAID CARD CREDIT AND VALIDITY INFORMATION .....	13
9.5	SET-UP PARAMETERS .....	15
9.6	SMS MESSAGES EDITOR.....	18
9.7	GSM INTERCOM.....	19
9.8	CALLER ID RECOGNITION - CLIP .....	22
9.9	EVENT LOGGING .....	23
9.10	SPECIAL SMS COMMANDS .....	24
<b>10</b>	<b>PRINT-OUT OF THE PARAMETERS.....</b>	<b>25</b>
10.1	RECEIVE ALL PARAMETERS (PALL) .....	25
10.2	CHECK SW REVISION (PSW).....	25
10.3	CHECK SIGNAL QUALITY (PSQ).....	25
10.4	RECEIVE TELEPHONE NUMBERS (PTN).....	25
10.5	RECEIVE LINKS (PLN) .....	26
10.6	RECEIVE INPUT PARAMETERS (PIN).....	26
10.7	RECEIVE INPUT FILTER VALUE (PID) .....	26
10.8	RECEIVE OUTPUT FILTER VALUE (POD).....	26
10.9	RECEIVE DELAY BEFORE DIAL VALUE (PDD).....	26
10.10	RECEIVE ACCESS TELEPHONE NUMBERS (PSL).....	26
10.11	RECEIVE OUTPUT PARAMETERS (POS).....	26
10.12	RECEIVE ALL PROGRAMMED SMS MESSAGES (P#).....	26
10.13	RECEIVE SET UP PARAMETERS VALUE (PPA) .....	27
10.14	RECEIVE CREDIT PARS PARAMETERS (PCREF) .....	27
10.15	RECEIVE ALL CLIP PARAMETERS (PCLP).....	27
10.16	RECEIVE INTERCOM BUTTON 1 PARAMATERS (PDEA) .....	27
10.17	RECEIVE INTERCOM BUTTON 2 PARAMATERS (PDEB) .....	27
10.18	RECEIVE INTERCOM BUTTON 3 PARAMATERS (PDEC) .....	27
10.19	RECEIVE INTERCOM BUTTON 4 PARAMATERS (PDED) .....	28
10.20	STATE OF THE CREDIT FOR THE PREPAID CARD .....	28

10.21	STATE OF THE OUTPUTS (PORC).....	28
10.22	MANUAL GSM MODULE RESTART (MRES) .....	28
10.23	RECEIVE STATUS OF INPUTS (INS).....	28
10.24	RECEIVE ICE-ENTRY UNIT LOG .....	28
<b>11</b>	<b>CHANGING PARAMETERS USING THE SMS COMMANDS.....</b>	<b>29</b>
<b>12</b>	<b>DEFAULT SETTINGS ON ICE-ENTRY UNIT .....</b>	<b>29</b>
<b>13</b>	<b>PARAMETERS PRINT-OUT COMMANDS .....</b>	<b>32</b>
<b>14</b>	<b>TECHNICAL SPECIFICATIONS.....</b>	<b>33</b>
<b>15</b>	<b>CONTACTS.....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>

## Figures

---

Figure 1:	ICE-ENTRY UNIT Connection diagram.....	7
Figure 2:	Input Connection diagram.....	8
Figure 3:	Output Connection diagram .....	11
Figure 4:	Designation of Call buttons .....	20

## Tables

---

Table 1:	IN, ID and DD parameters.....	9
Table 2:	IN, ID, DD parameters example .....	9
Table 3:	Remote alarm reporting parameters.....	10
Table 4:	Remote alarm reporting example.....	10
Table 5:	DTMF control example .....	11
Table 6:	Output management parameters .....	12
Table 7:	Output management parameters example.....	12
Table 8:	SL parameter.....	13
Table 9:	SL example .....	13
Table 10:	Prepaid card validity parameters.....	14
Table 11:	Credit example.....	15
Table 12:	Set-up parameters. ....	17
Table 13:	Set-up parameters example.....	18
Table 14:	Message parameters.....	19
Table 15:	Message parameters example. ....	19
Table 16:	Intercom parameters. ....	21
Table 17:	Intercom parameters example.....	22
Table 18:	CALLER ID - CLIP parameters. ....	22
Table 19:	CALLER ID - CLIP parameters example.....	23
Table 20:	LOG parameters.....	24
Table 21:	LOG parameters example. ....	24
Table 22:	SMS commands. ....	25
Table 23:	SMS commands example.....	25
Table 24:	ICE-ENTRY UNIT default settings. ....	32
Table 25:	ICE-ENTRY UNIT parameters print out commands. ....	33

# 1 FOR YOUR SAFETY

---

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

## **SWITCH ON SAFELY**

Do not switch the unit on when use of wireless phone is prohibited or when it may cause interference or danger.

## **INTERFERENCE**

All wireless phones and units may be susceptible to interference, which could affect performance.

## **SWITCH OFF IN HOSPITALS**

Follow any restrictions. Switch the unit off near medical equipment.

## **SWITCH OFF IN AIRCRAFT**

Follow any restrictions. Wireless devices can cause interference in aircraft.

## **SWITCH OFF WHEN REFUELING**

Do not use the unit at a refueling point. Do not use near fuel or chemicals.

## **SWITCH OFF NEAR BLASTING**

Follow any restrictions. Do not use the unit where blasting is in progress.

## **USE SENSIBLY**

Use only in the normal position as explained in the product documentation. Do not touch the antenna unnecessarily.

# 2 INTRODUCTION

---

ICE-ENTRY UNIT is a simple GSM intercom communication system that is designed to ensure low-cost, reliable and single box solution for intercom application. It is designed for unlimited range, wire free GSM intercom and Caller ID recognition – CLIP support.

In addition ICE-ENTRY UNIT supports alarm detection, stay-alive messages, credit detection etc...

# 3 FEATURES AND APPLICATIONS

---

Features:

- ⇒ Built-in 4 band GSM module
- ⇒ Up-to 4 buttons call support
- ⇒ 2 alarm inputs, 2 additional on extension connector
- ⇒ 2 outputs (relay supported)
- ⇒ Up to 1000 telephone numbers for CLIP support
- ⇒ Programming by USB cable
- ⇒ Programming by SMS commands
- ⇒ Anti-tampering input

Applications:

- ⇒ Single box, wire free intercom solution
- ⇒ Remote gate opener (Caller ID recognition - CLIP)
- ⇒ Simple alarm support

## 4 START UP

---

**VERY  
IMPORTANT**

USE A **MICRO SIM CARD** (micro-SIM, see the picture→)  
**WITH MEMORY FOR UP TO 250 CONTACTS!**



⇒ Insert SIM card to be used for ICE-ENTRY UNIT in your personal mobile phone.

**IMPORTANT**

ERASE THE PIN CODE!

- ⇒ Insert SIM card in ICE-ENTRY UNIT device. The unit must be switched OFF when you insert the SIM!
- ⇒ Connect inputs and outputs to ICE-ENTRY UNIT.
- ⇒ Connect the antenna to antenna connector.
- ⇒ Connect power cable to ICE-ENTRY UNIT device
- ⇒ Connect device to source power supply voltage.
- ⇒ Wait until LED3 display is turned ON (Yellow) and LED1 (Blue) starts flashing. This is set in around 30 – 45 seconds.
- ⇒ ICE-ENTRY UNIT unit is now ready to operate.

**IMPORTANT**

Before sending any SMS commands to ICE-ENTRY UNIT device, ICE-ENTRY UNIT must be in normal operation!

**NOTE**

ICE-ENTRY UNIT device will “beep” in 15s interval until the device is not in normal operation.

## 5 LED DISPLAY

---

### BLUE LED (LED1)

- Indicates the level of the GSM signal from 1 to 5 LED flashes (1 is weak signal, 5 is excellent signal)

### RED LED (LED2)

- When LED 2 is ON the unit has a problem with a GSM network connection or the GSM part of the unit is out of order. In this case immediately call the service!

### YELLOW LED (LED3)

- Short flashing indicates that the GSM module is ON, but it is not yet connected on the GSM network. After connection, Yellow LED is flashing with short pulse ON and a long pulse OFF.

## 6 CLEAR ALL PROGRAMMED DATA FROM ICE-ENTRY UNIT

---

This is highly recommended when a SIM card you are going to use for the ICE-ENTRY UNIT is not new and it already has some data stored in the phone book memory.

By sending this SMS to ICE-ENTRY UNIT all programmed parameters and numbers are cleared:  
**;SDCLR;**

After sending SMS you should wait at least 30 second for the command to be executed!

**NOTE**

By sending this command to the ICE-ENTRY UNIT all programmed data are erased from the SIM card, and from the memory inside the ICE-ENTRY UNIT device! After the device will start it will be configured with factory defaults.

## 7 CONNECTION DIAGRAM

Before connection the ICE-ENTRY UNIT please take a look at connection diagram.

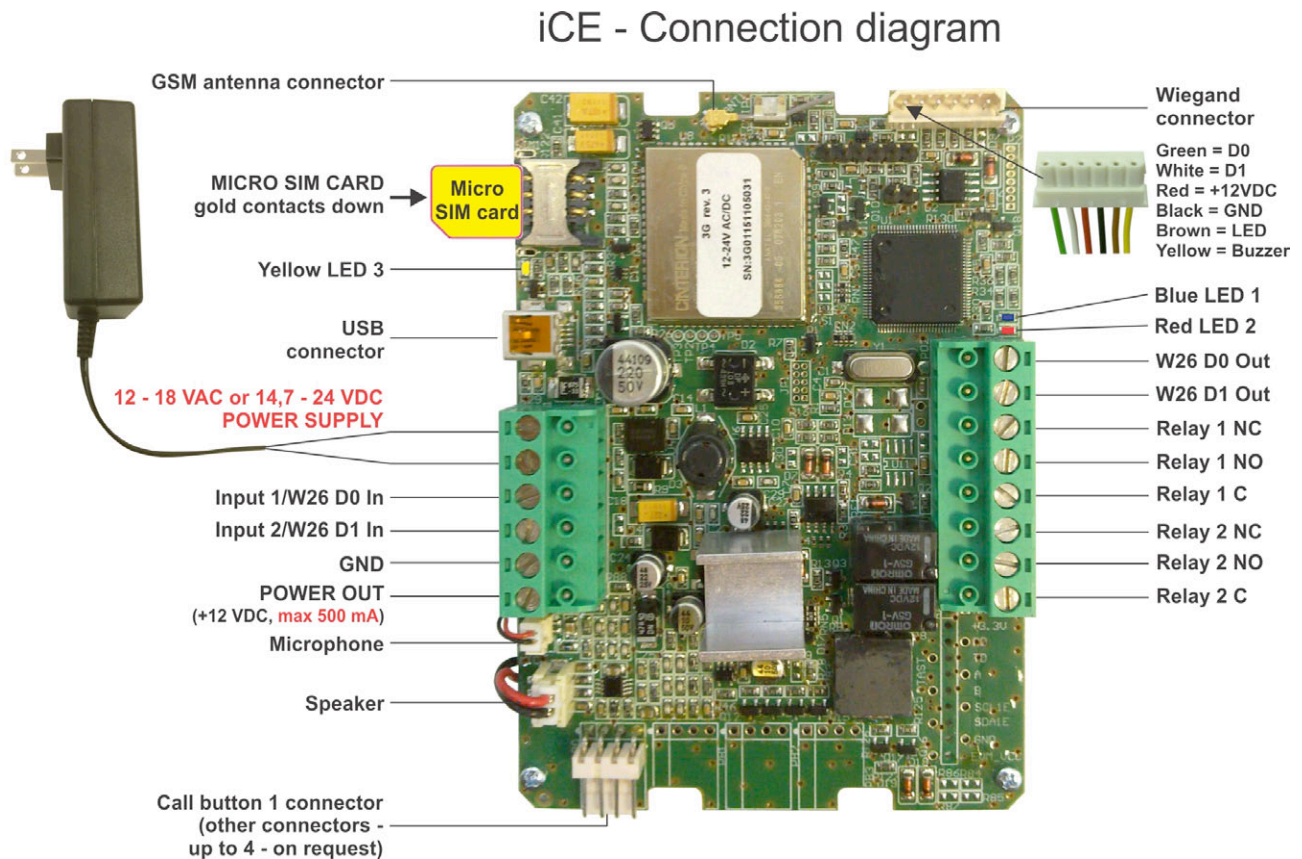


Figure 1: ICE-ENTRY UNIT Connection diagram

## 8 PROGRAMMING ICE-ENTRY UNIT

ICE-ENTRY UNIT device supports different types of programming:

- ⇒ You can program ICE-ENTRY UNIT remotely by sending text commands - SMS commands.
- ⇒ You can program ICE-ENTRY UNIT with USB key and SIM manager.
- ⇒ You can program ICE-ENTRY UNIT with direct USB connection, with the use of configuration software running on PC

### NOTE

To receive configuration software for PC please contact your local distributor.



## 9 THE ICE-ENTRY UNIT PARAMETERS

---

To support versatile functionality of ICE-ENTRY UNIT different parameters are used. The parameters are divided in logical sections and are described in the following chapters.

### 9.1 ALARM SUPPORT

---

Alarm reporting is supported by group of different parameters. First section is used to define the relations needed for alarm to be triggered. The second section is used to report alarm.

#### 9.1.1 ALARM TRIGGERING

---

Parameters are used to control (filter) the triggering of the alarm inputs.

##### 9.1.1.1 IN parameter

---

Alarm input can be on only used as normal open (N.O.) triggered with GND. When you need the input feedback information it is possible to receive SMS when input returns from alarm to normal position. To receive the return SMS use IN setting 4.

- ⇒ IN = 0 – Normal Open – triggered with negative voltage (GND)
- ⇒ IN = 4 = IN = 0 + input reset SMS

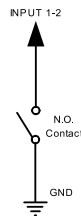


Figure 2: Input Connection diagram.

##### 9.1.1.2 ID parameter

---

ID parameter determines time period of the pulse length to trigger the alarm. The pulse time can be from 0,5 seconds to 9999 seconds. The default time is 0,5 seconds when the parameter value is 0.

##### 9.1.1.3 DD parameter

---

This parameter is used to define the delay between the time that alarm input is triggered and the time that alarm is reported.

### 9.1.1.4 Table of parameters

Name	Comment
IN1	Mode of operation for input 1
IN2	Mode of operation for input 2
ID1	Input time integration delay on input 1
ID2	Input time integration delay on input 2
DD1	Time delay for alarm reporting on input 1
DD2	Time delay for alarm reporting on input 2

Table 1: IN, ID and DD parameters

Example:

#### ◆ Direct programming on the SIM card

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
IN1	0	Alarm activated by connecting to GND
IN2	4	Alarm activated by connecting to GND + RST SMS
ID1	10	Input 1 has to be valid for 10 second to trigger the alarm
ID2	0	Input 2 has to be valid for 0,5 second to trigger the alarm
DD1	0	Reporting of the alarm on input 1 is delayed by 0s
DD2	15	Reporting of the alarm on input 2 is delayed by 15s

Table 2: IN, ID, DD parameters example

#### ◆ Remote programming by SMS

;IN1=0;IN2=4;ID1=10;ID2=0;DD1=0;DD2=15;

## 9.1.2 REMOTE REPORTING ALARM EVENTS

Parameters used to define the way to report the alarm event.

### NOTE

ICE-ENTRY UNIT device send SMS messages for reporting alarm events.

### 9.1.2.1 TN parameter

Telephone numbers for remote alarm reporting are listed as TN parameters. Remote alarm reporting on ICE-ENTRY UNIT is done via SMS messages.

### 9.1.2.2 LN parameter

This parameter is used to link alarm event from inputs or any other source to the telephone numbers from TN list.

### 9.1.2.3 LOT parameter

LOT parameter is used to define the time control for voice calls. The start of voice connection starts the LOT timer. If the voice connection is still ON when the LOT timer expires ICE-ENTRY UNIT disconnects voice connection.

### 9.1.2.4 Table of parameters

Name	Comment
TN1	1 <sup>st</sup> telephone number
TN2	2 <sup>nd</sup> telephone number
TN3	3 <sup>rd</sup> telephone number
TN4	4 <sup>th</sup> telephone number
TN5	5 <sup>th</sup> telephone number
LN1	Input & telephone No. linking for 1 <sup>st</sup> alarm input (TN1 – TN5)
LN2	Input & telephone No. linking for 2 <sup>nd</sup> alarm input (TN1 – TN5)
LN3	Input & telephone No. linking for 3 <sup>rd</sup> alarm input (TN1 – TN5)
LN4	Input & telephone No. linking for 3 <sup>rd</sup> alarm input (TN1 – TN5)
LN5	Periodic test SMS. No. linking (TN1 – TN5)
LN6	SIM card refill. No. linking (TN1 – TN5)
LN7	NAC list. No. linking (TN1 – TN5) (see note)
LN8	Log status. No. linking (TN1 – TN5)
LOT	Time out for GSM connection.

Table 3: Remote alarm reporting parameters

#### NOTE

When telephone number (calling or messaging ICE-ENTRY UNIT) is not on the CLIP list, not acknowledge event occurs (NAC). The telephone number responsible for this event can be send to TN user for notification.

Example:

#### ◆ Direct programming on the SIM card

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
TN1	042376678	1st telephone number
LN1	13	Input 1 reports alarm to TN1 & TN3
LN2	1234	Input 2 reports alarm to TN1 & TN2 & TN3 & TN4
LN7	1	NAC event sent to TN1
LOT	60	Voice connection stay valid for max of 60s, after this time Voice connection breaks

Table 4: Remote alarm reporting example

#### ◆ Remote programming by SMS

;TN1=042376678;LN1=13;LN2=1234;LN7=1;LOT=60;

### 9.1.3 CONTROLLING OUTPUTS WITH DTMF

ICE-ENTRY UNIT can control the outputs with the use of DTMF. This is very useful function in the intercom application.

To control the outputs the user must press the combination of 2 digits. First digit is used to select the output (1 to 2), the second digit is used to activate (1) or deactivate (0) the output. There is a special case when the user can select for first digit (output selection) number 0. In this case all outputs control by the same time.

Combination must be pressed in 2s interval, and must be 3s apart to be valid.

**NOTE** ICE-ENTRY UNIT must be in voice connection to support DTMF output control!

Example:

DTMF combination	Description
00	Deactivate ALL outputs
01	Activate ALL outputs
11	Activate output 1
10	Deactivate output 1 (if in latching mode)
21	Activate output 2
20	Deactivate output 2 (if in latching mode)

Table 5: DTMF control example

## 9.2 OUTPUT MANAGEMENT

ICE-ENTRY UNIT supports the possibility to report alarms from inputs and any other events locally via 2 outputs. The behavior is defined using next parameters

### 9.2.1 OS parameter

ICE-ENTRY UNIT device has 2 dedicated relay supported outputs. Outputs can be configured to different behavior:

- ⇒ OS = 0 – Disabled
- ⇒ OS = 1 – Bi-stable toggle mode
- ⇒ OS = xxx – Mono-stable pulse mode (duration in seconds)

Typical connection for the output:

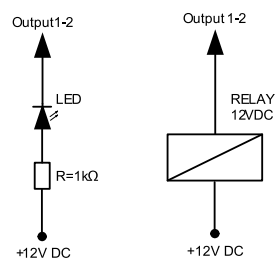


Figure 3: Output Connection diagram

### 9.2.2 OD parameter

OD parameter is used to link the alarm event directly to output.

### 9.2.3 OP1, OP2 parameters

Parameters are used to invert the polarity of the outputs.

- ⇒ 0 – normal
- ⇒ 1 – inverted

### 9.2.4 Table of parameters

Name	Comment
OS1	Mode of operation for output 1
OS2	Mode of operation for output 2
OD1	Input 1 direct link to outputs
OD2	Input 2 direct link to outputs
OD3	NAC direct link to outputs
OP1	Invert control for output 1
OP2	Invert control for output 2

Table 6: Output management parameters

Example:

#### ◆ Direct programming on the SIM card

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
OS1	1	Bistable toggle mode
OS2	14	Monostable pulse mode (14s pulse)
OD1	1	Input 1 activates output 1
OD2	2	Input 2 activates output 2
OP1	1	Output 1 inverted

Table 7: Output management parameters example

- ◆ **Remote programming by SMS**  
;OS1=1;OS2=14;OD1=1;OD2=2;OP1=1;

## 9.3 SECURITY LEVEL - SL

SL parameter from 0 to 5 defines which telephone number stored in the phone book from TN1 – TN5 can enter into programming and remote control of the ICE-ENTRY UNIT (dialing the ICE-ENTRY UNIT phone number or sending the SMS).

**NOTE**

When the SL level is 0, an access to the ICE-ENTRY UNIT is possible from any phone!

**IMPORTANT**

Before any SL number is programmed the ICE-ENTRY UNIT can accept ALL CALLS. Remote SMS programming and remote controlling is possible from any phone!

Name / value	Comment
SL = 0	All calls and SMS are accepted
SL = 1	Only number stored under parameter TN1 has access to unit
SL = 2	Numbers stored under parameters TN1 to TN2 have access to unit
SL = 3	Numbers stored under parameters TN1 to TN3 have access to unit
SL = 4	Numbers stored under parameters TN1 to TN4 have access to unit
SL = 5	Numbers stored under parameters TN1 to TN5 have access to unit

Table 8: SL parameter

Example:

◆ **Direct programming on the SIM card**

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
SL	3	Numbers stored under parameters TN1 to TN3 have access to unit

Table 9: SL example

◆ **Remote programming by SMS**

;SL=3;

## 9.4 PREPAID CARD CREDIT AND VALIDITY INFORMATION

ICE-ENTRY UNIT can be used with prepaid SIM cards and its limitations. To be able to overcome this limitation of the prepaid SIM cards, ICE-ENTRY UNIT offers the possibility of automatic checking mechanism for credit and time expiration.

**NOTE**

ICE-ENTRY UNIT automatically sends warning SMS when the credit reaches low level defined by LCV parameter or SIM card validity is near to expiration.

**NOTE**

For support of different GSM providers contact support.

### 9.4.1 Programming prepaid card credit and validity string

To be able to support credit and time validity checking different parameters are used.

### 9.4.1.1 LCV and SCV parameter

---

LCV is used to set the limit for low credit event. If the credit on prepaid SIM cards falls below this limit SMS is send.

SCV the period of valid operating time varies with different GSM network providers. The value can be programmed from 1 to 360 days. The default value does not presume any kind of expiry warning.

For example in Slovenia SCV are 90 and in Italy 360 days

### 9.4.1.2 CC1, CC2 and CC3 parameters

---

Number used to check low credit value. They are provided from the GSM providers.

- ⇒ CC1 - This method can be used by any GSM provider that supports Unstructured Supplementary Service Data
- ⇒ CC2 - This method is dedicated to Italian TIM mobile provider
- ⇒ CC3 - This method is dedicated to Italian Vodafone mobile provider

### 9.4.1.3 CREF, CTIM, CVODA parameters

---

Parameters are used to find the credit value of the prepaid SIM card. Strings under these parameters are used to pars the replay message from the GSM provider.

- ⇒ CREF - Pars string for the replays received from CC1 number
- ⇒ CVODA - Pars string for the replays received from CC2 number
- ⇒ CTIM - Pars string for the replays received from CC3 number

### 9.4.1.4 Table of parameters

---

Name	Comment
LCV	Low credit value, bottom limit for low credit event.
SCV	Sim card validity time (in days)
CC1	Credit number for credit check universally used
CC2	Credit number for credit check dedicated for Italian TIM mobile provider
CC3	Credit number for credit check dedicated for Italian Vodafone mobile provider
CREF	String for parsing replay message from CC1 number
CVODA	String for parsing replay message from CC2 number
CTIM	String for parsing replay message from CC3 number

Table 10: Prepaid card validity parameters

Example:

#### ◆ Direct programming on the SIM card

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
CC1	*448#	Simobil
CC2	4916	TIM Italy
CC3	404	Vodafone Italy
LCV	4	Low credit message will be send bellow 4

Table 11: Credit example

- ◆ **Remote programming by SMS**  
;CC1=\*448#;CC2=4916;CC3=404;LCV=4;

## 9.5 SET-UP PARAMETERS

---

Different parameters are used to support versatile functionality of ICE-ENTRY UNIT.

### 9.5.1 HTN parameter

---

Hidden telephone number is a parameter used in order to conceal the telephone number of the ICE-ENTRY UNIT device. The default value is set to "1" which means that the number is displayed.

### 9.5.2 ESC parameter

---

Parameter is used to define the input used to cancel the outgoing call from the ICE-ENTRY UNIT device.

### 9.5.3 UDC parameter

---

Parameter is used to synchronise ICE-ENTRY UNIT clock to GSM network clock. User must enter here the number of the ICE-ENTRY UNIT SIM card (Telephone number of ICE-ENTRY UNIT device).

### 9.5.4 RAN parameter

---

Parameter is used to provide support for auto-answer options for ICE-ENTRY UNIT device. The number defines the numbers of rings needed for ICE-ENTRY UNIT device to answer the incoming call. The incoming number must be on the TN list for ICE-ENTRY UNIT device to answer.

### 9.5.5 TST parameter

---

A test SMS is sent periodically. ICE-ENTRY UNIT can send the test message in the interval ranging from 1 hour to 240 hours.



Example:

To send test SMS TST value is set to 12, the numbers linked to “LN5” receive a test message every 12 hours.

### 9.5.6 TSTT parameter

---

TSTT parameter is used to define reference point for sending test message. If this parameter is set than after restart of the ZEUS4-MC first test SMS will be send out at time defined with TSTT parameter.

Parameter value is defined in hours.

**Example:** To receive first test SMS at 20.00h TSTT value must be set to 20

**NOTE**

By setting TSTT=0 this function is disabled

### 9.5.7 MNF parameter

---

When it is necessary to fix the GSM network to one provider the user can use the MNF parameter. The MNF parameter switches automatic network searching to manual.

Example:

MCC/MNC code for Simobil is 29340, Mobitel is 29341, TIM is 22201, and Vodafone Italy is 22210.

More information about national MCC/MNC codes can be acquired at:

<http://www.activexperts.com/activsms/networkcodes/>

### 9.5.8 MIC parameter

---

MIC parameter enables you to change the sound level on microphone

### 9.5.9 SPK parameter

---

SPK parameter enables you to change the speaker sound level.

### 9.5.10 MUT parameter

---

MUT parameter enables you mutate the speaker sound while initiating voice connection.

### 9.5.11 ARST parameter

---

ARST parameter defines periodic of auto restart time (in hours) of the ICE-ENTRY UNIT device.

### 9.5.12 ADF parameter

---

Parameter is used to define voice refresh function, to prevent blocking of SIM in some networks.

### 9.5.13 LNG parameter

---

LNG parameter switches between the preprogrammed languages:

- ⇒ 0 - English
- ⇒ 1 - Italian
- ⇒ 2 - Slovenian
- ⇒ 3 - Croatian
- ⇒ 4 - Dutch
- ⇒ 5 - German
- ⇒ 6 - Spanish

### 9.5.14 BUZ parameter

---

Parameter is used to control buzzer functionality on ICE-ENTRY UNIT. Buzzer is used to audio support some events on ICE-ENTRY UNIT device.

### 9.5.15 Table of parameters

---

Name	Comment
UDC	Tel. number of ICE-ENTRY UNIT device
ESC	Input used as cancel button
RAN	Auto answer ring number
HTN	Hidden telephone number
TST	SMS test time out
TSTT	Periodic test SMS start time
MNF	Manual GSM provider selection
MIC	Microphone volume control
SPK	Speaker volume control
ARST	Time out control for automatic system restart
ADF	Auto dial functionality (Call TN1)
LNG	Language selection
BUZ	Buzzer control

Table 12: Set-up parameters.

Example:

#### ◆ Direct programming on the SIM card

<b>ICE-ENTRY UNIT PROGRAMMING TABLE</b>
<b>SIM CARD PHONE BOOK</b>

Name	Number	Description
HTN	0	Hidden telephone number of the ICE-ENTRY UNIT device
MNF	29340	Manual fixing of the GSM provider (Simobil)
LNG	1	Switch on Italian language
MIC	2	Microphone volume level
SPK	20	Speaker volume level
TST	24	24 hours periodic test SMS
BUZ	0	Mute buzzer
ESC	2	Input 2 is used as cancel button

Table 13: Set-up parameters example.

◆ **Remote programming by SMS**

;HTN=0;MFN=29340;LNG=1;MIC=2;SPK=20;TST=24; BUZ=0;ESC=2;

## 9.6 SMS MESSAGES EDITOR

You can write and send a short SMS message for each alarm input. The default message is English, but it is possible to change language with LNG parameter. Each message is built from 3 parts and user can write the first (User Location) and the second (alarm event) part of the message. Unit adds the third part (alarm event description) automatically. Language of the 3rd part may be changed by LNG parameter. The message is stored in the SIM phone book so you should add any number for correct operation.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
#	0	U	S	E	R		L	O	C	A	T	I	O	N	
#	1	I	N	P	U	T		1							
#	2	I	N	P	U	T		2							
#	3	I	N	P	U	T		3							
#	4	I	N	P	U	T		4							

**NOTE**

Message should not be longer than 14 characters! Space is also counted as one character!

## 9.6.1 Table of parameters

Name	Comment
#0	User location, same for all alarm messages
#1	Input 1, second part of message
#2	Input 2, second part of message

Table 14: Message parameters.

Example:

### ◆ Direct programming on the SIM card

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
#0House	1	Location definition
#1Kitchen	1	Alarm input is from the kitchen

Table 15: Message parameters example.

### ◆ Remote programming by SMS

;#0HOUSE=1;#1KITCHEN=1;

## 9.7 GSM INTERCOM

Intercom functionality is supported by a set of parameters, used to tweak the functionality to each user needs.

For each button ICE-ENTRY UNIT incorporates a group of parameters. There are up to 4 groups of parameters.

### IMPORTANT

ICE-ENTRY UNIT is capable of supporting up-to 4 call buttons. The current version is equipped with 1 to 4 call buttons so **GROUP A for Button 1, GROUP B for Button 2, GROUP C for Button 3 and GROUP D for Button 4** are used and described in this manual.

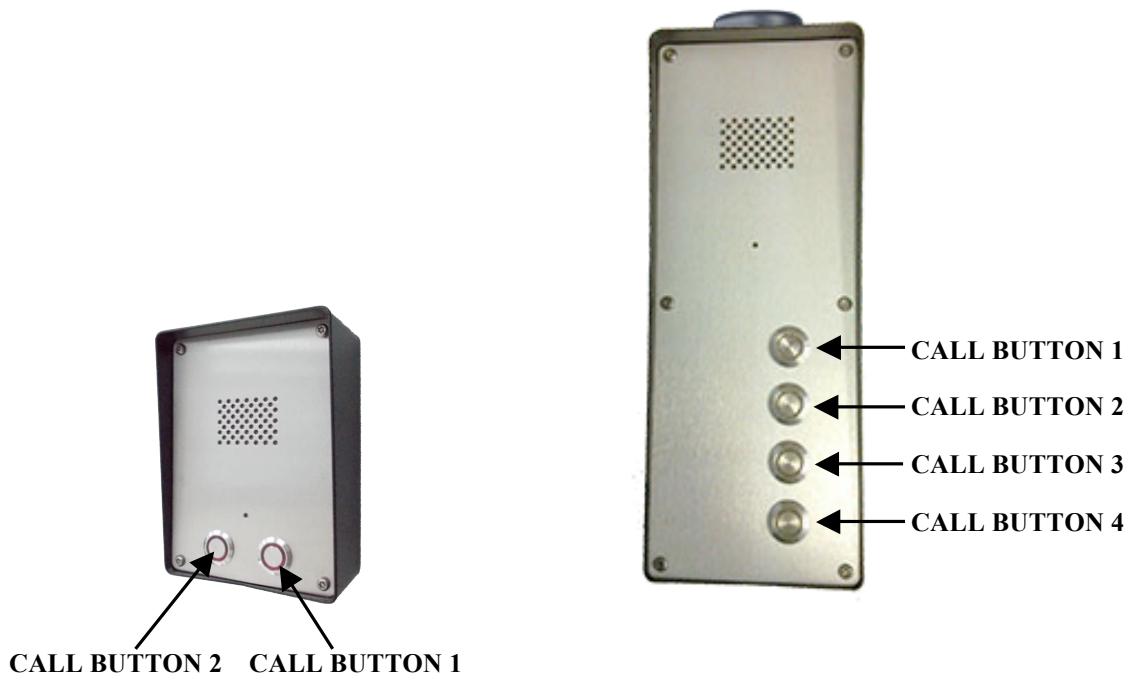


Figure 4: Designation of Call buttons

### 9.7.1 xTN1 to xTN5 parameters

---

Parameters are the call numbers for intercom application (x = A or B or C or D).

### 9.7.2 RTNx parameter

---

Parameter defines the ring time time-out. RTNx timer is started when the call button is pressed. If the RTNx timer expires before the GSM voice connection is established then ICE-ENTRY UNIT device calls the next number in XTN1-XTN5 call list.

### 9.7.3 DTMF auto dial functionality

---

This function is used to provide a support for ICE-ENTRY UNIT device to be able select extended numbers via DTMF command.

#### 9.7.3.1 SDNx parameter

---

Parameter is used to set the DTMF number in auto self-select function.

#### 9.7.3.2 SDDx parameter

---

Parameter is used to set the delay (in sec.) for sending DTMF number in auto self-select function.

### 9.7.4 Time zone

---

Time zone support. When both time limits are sets (TZSx and TZEx) time zone functionality is ON. When the current time is in the limits of the time zone parameters the button event calls the number from xTN1 to xTN4, else button event calls xTN5.

### 9.7.4.1 TZSx parameter

Parameter is used to configure the start time for the time zone functionality - 24h time format.

### 9.7.4.2 TZEx parameter

Parameter is used to configure the end time for the time zone functionality - 24h time format.

## 9.7.5 Table of parameters

Name	Comment
ATN1	Button 1, Telephone number 1.
ATN2	Button 1, Telephone number 2.
ATN3	Button 1, Telephone number 3.
ATN4	Button 1, Telephone number 4.
ATN5	Button 1, Telephone number 5.
RTNA	Button 1, time out control for voice connection.
SDNA	Button 1, DTMF number to send.
SDDA	Button 1, delay for DTMF number to send.
TZSA	Button 1, time zone start period.
TZEA	Button 1, time zone end period.
BTN1	Button 2, Telephone number 1.
BTN2	Button 2, Telephone number 2.
BTN3	Button 2, Telephone number 3.
BTN4	Button 2, Telephone number 4.
BTN5	Button 2, Telephone number 5.
RTNB	Button 2, time out control for voice connection.
SDNB	Button 2, DTMF number to send.
Sddb	Button 2, delay for DTMF number to send.
TZSB	Button 2, time zone start period.
TZEB	Button 2, time zone end period.
CTN1	Button 3, Telephone number 1.
CTN2	Button 3, Telephone number 2.
CTN3	Button 3, Telephone number 3.
CTN4	Button 3, Telephone number 4.
CTN5	Button 3, Telephone number 5.
RTNC	Button 3, time out control for voice connection.
SDNC	Button 3, DTMF number to send.
SDDC	Button 3, delay for DTMF number to send.
TZSC	Button 3, time zone start period.
TZEC	Button 3, time zone end period.
DTN1	Button 4, Telephone number 1.
DTN2	Button 4, Telephone number 2.
DTN3	Button 4, Telephone number 3.
DTN4	Button 4, Telephone number 4.
DTN5	Button 4, Telephone number 5.
RTND	Button 4, time out control for voice connection.
SDND	Button 4, DTMF number to send.
SDDD	Button 4, delay for DTMF number to send.
TZSD	Button 4, time zone start period.
TZED	Button 4, time zone end period.

Table 16: Intercom parameters.

Example:

◆ **Direct programming on the SIM card**

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
ATN1	040713470	Button 1, Telephone number 1.
ATN2	+38643364850	Button 1, Telephone number 2.
BTN1	040123585	Button 2, Telephone number 1.
RTNA	30	Button 1, time out control for voice connection.

Table 17: Intercom parameters example.

◆ **Remote programming by SMS**

;ATN1=040713470;ATN2=+38643364850;BTN1=040123585;RTNA=30;

## 9.8 CALLER ID RECOGNITION - CLIP

---

CLIP is used to provide the “free of charge” options to control the outputs.

### 9.8.1 CLPEN parameter

---

Parameter used to enable CLIP functionality.

### 9.8.2 CLPOU parameter

---

Parameter used to choose which output will be controlled by the CLIP functionality.

### 9.8.3 CLPI parameter

---

This parameter, if set, is a precondition for CLIP function to control the output.

### 9.8.4 CLP1 ... CLP1000 parameter

---

Set of telephone number, which can control the output. The number not on CLP list is not able to control the output using clip functionality.

### 9.8.5 Table of parameters

---

Name	Comment
CLPEN	Enable CLIP functionality
CLPOU	Control output pin when CLIP event
CLPI	CLIP input activation condition
CLP1	CLIP number 1
to	.
CLP1000	CLIP number 1000

Table 18: CALLER ID - CLIP parameters.

Example:

◆ **Direct programming on the SIM card**

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
CLPEN	1	Enable CLIP functionality
CLPOU	2	CLIP control output 2
CLPI	0	No input activation condition
CLP1	040414414	CLIP number 1
CLP2	042340880	CLIP number 2

Table 19: CALLER ID - CLIP parameters example.

◆ **Remote programming by SMS**

;CLPEN=1;CLPOU=2;CLPI=0;CLP1=040414414;CLP2=042340880;

## 9.9 EVENT LOGGING

ICE-ENTRY UNIT device support logging of specific events. ICE-ENTRY UNIT logs CLIP event and alarm input events. Log event consist of event type, time and telephone number or input number.

**Up to 20.000 Log events can be stored.**

### 9.9.1 LOGN parameter

Parameter is used for defining the number of events printed out on PLOG request.

### 9.9.2 LOGI parameter

Parameter is used to define the media used for logging of events on ICE-ENTRY UNIT. User can select between nonvolatile memory on ICE-ENTRY UNIT or select USB to transfer events directly via USB to PC.

- ⇒ LOGI=0      Logging is OFF
- ⇒ LOGI=1      Logging in internal memory
- ⇒ LOGI=2      Logging to USB interface

### 9.9.3 ALC parameter

Parameter is used to control behavior when log on ICE-ENTRY UNIT is full. User can select between auto log clear or manual clear of log.

- ⇒ ALC=0      Automatically delete buffer when memory is FULL
- ⇒ ALC=1      Memory buffer must be deleted manually when it is FULL

### 9.9.4 Table of parameters

Name	Comment
LOGN	Number of log events for printing out
LOGI	Log interface
ALC	Automatic log clear



Table 20: LOG parameters.

Example:

◆ **Direct programming on the SIM card**

ICE-ENTRY UNIT PROGRAMMING TABLE		
SIM CARD PHONE BOOK		
Name	Number	Description
LOGN	5	5 log events will be printed out on PLOG command
LOGI	0	Nonvolatile memory on ICE-ENTRY UNIT
ALC	1	Log is auto cleared when full

Table 21: LOG parameters example.

◆ **Remote programming by SMS**

;LOGN=5;LOGI=0;ALC=1;

## 9.10 SPECIAL SMS COMMANDS

---

These commands can only be issued only over SMS message, and are used to control some special functions of ICE-ENTRY UNIT device.

### 9.10.1 ORC command

---

Command is used to control outputs directly via SMS message

### 9.10.2 SDCLR command

---

To clear all data on SIM card SDCLR command is used.

### 9.10.3 LCRL command

---

Command clears log on ICE-ENTRY UNIT device.

### 9.10.4 CLPCLR command

---

Command is used to delete all CLP numbers.

### 9.10.5 MRES command

---

Command is used to manually restart GSM module on ICE-ENTRY UNIT device.

### 9.10.6 SSRES command

---

Command is used to manually restart ICE-ENTRY UNIT device.

### 9.10.7 Table of parameters

---

Name	Comment
ORC1	Control of output 1
ORC2	Control of output 2

SDCLR	Delete all SIM content
LCRL	Delete log on ICE-ENTRY UNIT device
MRES	Manual reset of GSM module
SSRES	Manual reset of ICE-ENTRY UNIT device

Table 22: SMS commands.

Example:

#### ◆ Remote programming by SMS

SMS commad	Description
;ORC1=1;	Activate output 1
;ORC2=0;	Deactivate output 2
;SDCLR;	Clear all data on SIM
;LCLR;	Delete log on ICE-ENTRY UNIT device
;MRES;	Manual reset of GSM module
;SSRES;	Manual reset of ICE-ENTRY UNIT device

Table 23: SMS commands example.

## 10 PRINT-OUT OF THE PARAMETERS

---

The user can check the settings of ALL parameters on the ICE-ENTRY UNIT.

### 10.1 RECEIVE ALL PARAMETERS (PALL)

---

By sending this command to ICE-ENTRY UNIT you receive SMS messages with all parameters that are currently programmed in the unit:

**;PALL;**

### 10.2 CHECK SW REVISION (PSW)

---

By sending this command to ICE-ENTRY UNIT you receive SMS messages with current SW version running on ICE-ENTRY UNIT device:

**;PSW;**

### 10.3 CHECK SIGNAL QUALITY (PSQ)

---

By sending this command to ICE-ENTRY UNIT you receive SMS messages with signal quality ICE-ENTRY UNIT device is connected to network:

**;PSQ;**

### 10.4 RECEIVE TELEPHONE NUMBERS (PTN)

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed telephone numbers (TN1 – TN5):

**;PTN;**

## **10.5 RECEIVE LINKS (PLN)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed links (LN1 –LN8):

**;PLN;**

## **10.6 RECEIVE INPUT PARAMETERS (PIN)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed Input parameters (IN1 – IN4):

**;PIN;**

## **10.7 RECEIVE INPUT FILTER VALUE (PID)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed Input filters (ID1 – ID4):

**;PID;**

## **10.8 RECEIVE OUTPUT FILTER VALUE (POD)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed direct output links (OD1 – OD5):

**;POD;**

## **10.9 RECEIVE DELAY BEFORE DIAL VALUE (PDD)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed Input filters (DD1 – DD4):

**;PDD;**

## **10.10 RECEIVE ACCESS TELEPHONE NUMBERS (PSL)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with programmed SL level:

**;PSL;**

## **10.11 RECEIVE OUTPUT PARAMETERS (POS)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed Outputs parameters (OS1 – OS2):

**;POS;**

## **10.12 RECEIVE ALL PROGRAMMED SMS MESSAGES (P#)**

---

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed alarm SMS messages (#0 - #4):

**;P#;**

### **10.13 RECEIVE SET UP PARAMETERS VALUE (PPA)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed Setup parameters (TST, MNF...):

**;PPA;**

### **10.14 RECEIVE CREDIT PARS PARAMETERS (PCREF)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed credit parse parameters (CREF, CVODA...):

**;PCREF;**

### **10.15 RECEIVE ALL CLIP PARAMETERS (PCLP)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed CLIP functionality related parameters (CLPEN, CLPOU, CLPI, CLPx):

**;PCLP;**

#### **NOTE**

User can use ;PCLP=x,y; to limit the number of CLIP numbers to be printed.

x = start number

y = end number

Example: ;PCLP=1,30; Prints first 30 CLIP numbers

### **10.16 RECEIVE INTERCOM BUTTON 1 PARAMATERS (PDEA)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed button 1 group parameters (ATN1, ATN2, ATN3, ATN4, ATN5, RTNA, SDNA, SDDA, TZSA, TZEA):

**;PDEA;**

### **10.17 RECEIVE INTERCOM BUTTON 2 PARAMATERS (PDEB)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed button 2 group parameters (BTN1, BTN2, BTN3, BTN4, BTN5, RTNB, SDNB, Sddb, TZSB, TZEB):

**;PDEB;**

### **10.18 RECEIVE INTERCOM BUTTON 3 PARAMATERS (PDEC)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed button 1 group parameters (CTN1, CTN2, CTN3, CTN4, CTN5, RTNC, SDNC, SDDC, TZSC, TZEC):

**;PDEC;**

### **10.19 RECEIVE INTERCOM BUTTON 4 PARAMATERS (PDED)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with all currently programmed button 2 group parameters (DTN1, DTN2, DTN3, DTN4, DTN5, RTND, SDND, SDDD, TZSD, TZED):

**;PDED;**

### **10.20 STATE OF THE CREDIT FOR THE PREPAID CARD**

By sending this command to ICE-ENTRY UNIT you receive SMS message with Credit amount on your prepaid SIM card:

**;PCCX;**

Where X is the number of programmed prepaid card provider.

### **10.21 STATE OF THE OUTPUTS (PORC)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with current outputs state.

**;PORC;**

### **10.22 MANUAL GSM MODULE RESTART (MRES)**

By sending this command to ICE-ENTRY UNIT shuts down GSM module and after a few second it switches the power of the GSM module ON again. The unit reboots all parameters from the SIM card.

**;MRES;**

### **10.23 RECEIVE STATUS OF INPUTS (INS)**

By sending this command to ICE-ENTRY UNIT you receive SMS message with current input state.

**;INS;**

### **10.24 RECEIVE ICE-ENTRY UNIT LOG**

By sending this command to ICE-ENTRY UNIT you receive SMS message with log on ICE-ENTRY UNIT device.

**;PLOG;**

#### **NOTE**

User can use ;PLOG=x,y; to define the number of logs to be printed.

x = start event

y = end event

Example

;PLOG=1, 30; Prints first 30 log events

## 11 CHANGING PARAMETERS USING THE SMS COMMANDS

All programming parameters for ICE-ENTRY UNIT can also be sent by SMS command. Each SMS command should start and stop with semicolon. If the confirmation SMS is needed, put “+” at the beginning of the command SMS.

The first SMS is SMS with telephone numbers (TN1 – TN4). If you would like to check which telephone numbers are programmed in ICE-ENTRY UNIT please use the following command:  
**;PTN;**

Return SMS is (example):  
**;TN1=0;TN2=0;**

If you would like to enter telephone numbers in to ICE-ENTRY UNIT you can use the following example:  
**;TN1=040713470;TN2=+38643364850;**

If you would like to receive confirmation SMS write “+” before SMS command:  
**;+TN1=040713470;TN2=+38643364850;**

Return SMS from ICE-ENTRY UNIT is:  
**;TN1=040713470;TN2=+38643364850;**

**NOTE** You can use the same programming procedure for all parameters.

It is also possible to change different parameters with one SMS. Consider that the SMS message should not be longer than **160 characters** (included space characters).

If you would like to change the following parameters **TN1, IN1, IN2, OS1, OS2; ID1, LN1 and CRE** and would like to receive confirmation SMS, try next example:  
**;+TN1=+38640713470;IN1=1;IN2=1;OS1=15;OS2=1;ID1=120;LN1=1;**

Send SMS message to ICE-ENTRY UNIT telephone number and in a few seconds you receive SMS message from ICE-ENTRY UNIT. The sentence of the SMS must be the same as the one you have sent to ICE-ENTRY UNIT before.

## 12 DEFAULT SETTINGS ON ICE-ENTRY UNIT

ICE-ENTRY UNIT PROGRAMMING TABLE		
Name	Default Value	Short Description
TN1	Empty	Telephone number 1
TN2	Empty	Telephone number 1
TN3	Empty	Telephone number 2
TN4	Empty	Telephone number 3
TN5	Empty	Telephone number 4
IN1	0	Input 1 control
IN2	0	Input 2 control

ICE-ENTRY UNIT PROGRAMMING TABLE		
Name	Default Value	Short Description
OS1	5	Output 1 mode
OS2	5	Output 2 mode
OD1	1	Input 1 direct output link
OD2	0	Input 2 direct output link
OD5	0	NAC direct output link
LN1	Empty	Input 1, link to tel. numbers
LN2	1	Input 2, link to tel. numbers
LN3	Empty	Input 3, link to tel. numbers
LN4	1	Input 4, link to tel. numbers
LN5	Empty	Periodic SMS text, link to tel. numbers
LN6	Empty	SIM card refill, link to tel. numbers
LN7	Empty	NAC, link to tel. numbers
LN8	Empty	LOG full, link to tel. numbers
ID1	1	Input 1 delay filter on input
ID2	120	Input 2 delay filter on input
DD1	0	Input 1 delay before dialing
DD2	0	Input 2 delay before dialing
SL	0	Security level
#0	“User Location”	SMS main head text
#1	“Input1”	SMS input 1 text
#2	“Input2”	SMS input 2 text
#3	“Input3”	SMS input 3 text
#4	“Input4”	SMS input 4 text
CC1	Empty	Check credit Num 1
CC2	Empty	Check credit, TIM Italy
CC3	Empty	Check credit, Vodafone Italy
ESC	0	Input used as cancel button
UDC	Empty	Tel. number of ICE-ENTRY UNIT device
HTN	1	Hidden telephone number
RAN	0	Auto answer ring number
SCV	0	SIM card time validity
TST	24	Periodic test SMS timeout
TSTT	0	Periodic test SMS start time
MNF	0	Network connection type
MIC	15	Microphone volume setting (0 - 40)
MUT	0	Mute functionality
SPK	10	Speaker volume setting (0 - 20)
LCV	4	Low credit value
LNG	0	Language selection
LOT	90	Connection time out value
LOGN	5	Number of log events for printing out
LOGI	0	Log interface
ALC	1	Automatic log clear
ADF	90	Auto dial functionality (Call TN1)

ICE-ENTRY UNIT PROGRAMMING TABLE		
Name	Default Value	Short Description
ARST	0	Automatic reset timeout
CREF	“EUR”	Parse text (contact support)
CTIM	“EURO”	Parse text (contact support)
CVODA	“DISPON. E.”	Parse text (contact support)
OP1	1	Output invert 1
OP2	1	Output invert 2
BUZ	1	Buzzer control
SPO	1	SIM card starting position
CLPEN	1	Enable CLIP functionality
CLPOU	1	Control output pin when CLIP event
CLPI	0	CLIP input activation condition
CLP1	Empty	CLIP number 1
.	.	.
CLP1000	Empty	CLIP number 1000
ATN1	Empty	Button 1, Telephone number 1
ATN2	Empty	Button 1, Telephone number 2
ATN3	Empty	Button 1, Telephone number 3
ATN4	Empty	Button 1, Telephone number 4
ATN5	Empty	Button 1, Telephone number 5
RTNA	25	Ring time, Button 1
SDNA	0	DTMF number to send
SDDA	0	Delay for DTMF to send
TZSA	0	Time zone start interval
TZEA	0	Time zone end interval
BTN1	Empty	Button 2, Telephone number 1
BTN2	Empty	Button 2, Telephone number 2
BTN3	Empty	Button 2, Telephone number 3
BTN4	Empty	Button 2, Telephone number 4
BTN5	Empty	Button 2, Telephone number 5
RTNB	25	Ring time, Button 2
SDNB	0	DTMF number to send
SDDB	0	Delay for DTMF to send
TZSB	0	Time zone start interval
TZEB	0	Time zone end interval
CTN1	Empty	Button 3, Telephone number 1
CTN2	Empty	Button 3, Telephone number 2
CTN3	Empty	Button 3, Telephone number 3
CTN4	Empty	Button 3, Telephone number 4
CTN5	Empty	Button 3, Telephone number 5
RTNC	25	Ring time, Button 3
SDNC	0	DTMF number to send
SDDC	0	Delay for DTMF to send
TZSC	0	Time zone start interval
TZEC	0	Time zone end interval



ICE-ENTRY UNIT PROGRAMMING TABLE		
Name	Default Value	Short Description
DTN1	Empty	Button 4, Telephone number 1
DTN2	Empty	Button 4, Telephone number 2
DTN3	Empty	Button 4, Telephone number 3
DTN4	Empty	Button 4, Telephone number 4
DTN5	Empty	Button 4, Telephone number 5
RTND	25	Ring time, Button 4
SDND	0	DTMF number to send
SDDD	0	Delay for DTMF to send
TZSD	0	Time zone start interval
TZED	0	Time zone end interval

Table 24: ICE-ENTRY UNIT default settings.

## 13 PARAMETERS PRINT-OUT COMMANDS

ICE-ENTRY UNIT PROGRAMMING TABLE	
Name	Short Description
PALL	Prints all parameters available on ICE-ENTRY UNIT.
PSW	Prints SW version of ICE-ENTRY UNIT.
PSQ	Prints GSM network signal quality of ICE-ENTRY UNIT.
PTN	Prints TNx numbers.
PLN	Prints LNx links.
PIN	Prints INx parameters.
PID	Prints IDx parameters.
POD	Prints ODx parameters.
PDD	Prints DDx parameters.
PSL	Prints SL parameter.
POS	Prints OSx parameters.
P#	Prints #x parameters.
PPA	Prints various setup parameters.
PCLP	Prints CLIP parameters.
PLOG	Prints log of the ICE-ENTRY UNIT.
PCREF	Prints credit pars parameters.
PCN	Prints credit request numbers.
PCC1	Prints credit for ICE-ENTRY UNIT (universal request).
PCC2	Prints credit for ICE-ENTRY UNIT. (TIM Italy).
PCC3	Prints credit for ICE-ENTRY UNIT. (VODAFONE Italy).
PWG	Prints Wiegand parameters.
INS	Prints status of the inputs.
PORC	Prints (controls) the status of outputs.
PDEA	Prints intercom button 1 parameters.
PDEB	Prints intercom button 2 parameters.

Table 25: ICE-ENTRY UNIT parameters print out commands.

## 14 TECHNICAL SPECIFICATIONS

Description	Value
Power Supply	12,0 – 18,0 V AC or 14,7 – 24,0 V DC (1,0 – 2,0A)
Current consumption - peak	2A
Current consumption - transmitting mode	250mA
Current consumption - idle mode	40mA
Quad band GSM module	850/900/1800/1900 MHz
PCB dimensions	4-3/16 x 3-1/2 inches
Unit dimensions (1 and 2 buttons)	6-3/16 x 116 x 61 (51) mm
Call buttons	Up to 4 (in larger enclosure: 11-3/8 × 4-1/2 × 2-1/4 inches)
External Antenna	1
Weight	Approx. 1000 gr.
Alarm inputs	2
Alarm outputs (relay)	2
12V DC Aux. Power Supply output	Y (max. 500 mA)
12,0 – 18,0 V AC or 14,7 – 24,0 V DC Power Supply input	Y
Anti-tamper protection	optional