Alarm system for elevators
compliant with the European Standard
EN 81-28:2018

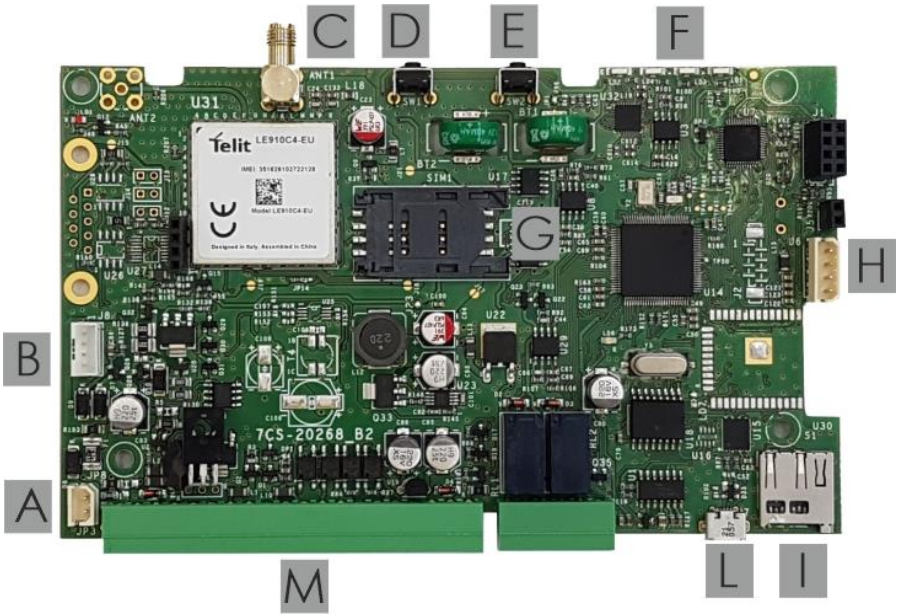
SYNPLICITY 4G.VoLTE

QUICK GUIDE

7IS-80493 15/10/2024

CE

DESCRIPTION



A	Built-in backup battery connector
B	Internal power-supply connector
C	Antenna cable connector
D	Reset pushbutton
E	Alarm pushbutton
F	LEDs
G	SIM card slot
H	Serial port for PC connection
I	Micro SD card slot
L	Micro USB A/B port
M	Terminal blocks

Terminal blocks

+	12 Vdc power supply input [1]
–	Negative pole
BUS+	Bus for connecting 2W speaker units
BUS-	Bus for connecting 2W speaker units
BUS-	Bus for connecting 2W speaker units
BUS+	Bus for connecting 2W speaker units
TEL+	Local telephone
TEL-	Local telephone
IN1	Input [2] 1 (freely programmable; factory default: filter input)
IN2	Input [2] 2 (freely programmable; factory default: gong input)
+12	12 Vdc output max. 100 mA
C1-2	Common terminal [3] for input IN1 and IN2
–	Negative pole
IN3	Input [2] 3 (freely programmable; factory default: auxiliary input)
IN4	Input [2] 4 (freely programmable; factory default: alarm input)
+12	12 Vdc output max. 100 mA
C3-4	Common terminal [3] for input IN3 and IN4
–	Negative pole
SIR	Siren input
–	Negative
RL1 C	Relay 1 (common contact)
RL1 NC	Relay 1 (normally closed contact)
RL1 NO	Relay 1 (normally open contact)
RL2 C	Relay 2 (common contact)
RL2 NC	Relay 2 (normally closed contact)
RL2 NO	Relay 2 (normally open contact)

[1]: before using this input disconnect the internal power-supply cable from the B connector in the picture at page 2; to keep the backup battery connected, a voltage of 14,5 Vdc must be supplied to the input

[2]: allows to connect voltage free contacts (NO or NC) or powered contacts

[3]: can be connected to a block **–**, to the block +12 or to an external reference

LEDs

- Alarm / periodical test call (yellow)
- Mobile network signal strength (green)
- Device status (red)
- Power supply status (blue)

ATTENTION

Check with your network provider that VoLTE service is active on the SIM card you are using.

CONNECTING THE TELEPHONE LINE

Inserting the SIM card

Before inserting the SIM card, make sure the device is off and use all due precaution to avoid electrostatic discharge.

- Remove the cover.
- Push the SIM Card housing cover as indicated by the arrow OPEN until it unlocks and lift it.
- Carefully slide the SIM Card into its housing cover.
- Lower the SIM Card housing cover and push it as indicated by the arrow LOCK until it locks in place.

ATTENTION

It is not required to remove the PIN code prior to the use of the Synplicity 4G.VoLTE.
The PIN code can be entered, if necessary, by setting parameter 282. PINs 0000 and 1234 are automatically managed.

Installing the antenna

- Screw the antenna extension cable provided in the appropriate connector.

ATTENTION

Position the antenna with magnetic base so that any metal surfaces do not block the signal.

ATTENTION

In order to avoid damage, never power up the base station without having first installed the antenna.

ATTENTION

Do not install the product in the immediate vicinity of other electrical or electronic equipment that was not designed to be combined with it and that could cause disturbance or interference.

CONNECTING THE SPEAKER UNITS

It is possible to connect to the Synplicity 4G.VoLTE up to 16 independent 2W speaker units by means of the 2-wire bus.
The bus can power 4 speaker units, the remaining 12 must be powered by the specific +12 input.

*Note: a **2W speaker unit** allows to realize an independent voice point with dedicated pushbutton and indicator lights.*

Each 2W speaker unit must have a unique ID. Speaker units with the same ID cannot have access to the bus and are not working.

Note: the identifier 01 must be assigned to the cabin speaker unit.

- Assign, using the DIP switch, an ID to each 2W speaker unit (see next paragraph).
- Connect the speaker units (beware of terminal polarity):

2W SPEAKER UNIT	***SYNPLICITY 4G.VOLTE***
BUS+	BUS+
BUS–	BUS–

2W speaker unit description

A	Loudspeaker
B	Given alarm indicator light *
C	Received alarm indicator light *
D	DIP switch for ID assignation
E	Pushbutton *
F	Terminal blocks:

+12	Power supply input 12 Vdc
–	Negative
AR+	Received alarm indicator light (light positive pole)
AI+	Given alarm indicator light (light positive pole)
AR–	Received alarm indicator light (light negative pole)
AI–	Given alarm indicator light (light negative pole)
AL1–	Alarm input
AUX	Auxiliary input / Alarm input / Filter input
AL1+	Alarm input
BUS –	Bus for connecting Synplicity 4G.VoLTE
BUS +	Bus for connecting Synplicity 4G.VoLTE

* only for some models

G Terminal blocks for connecting external speaker and microphone

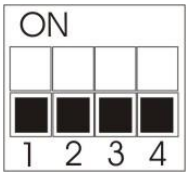
ALT2	Output for connecting an external loudspeaker
MIC2	Input for connecting an external microphone
–	Negative

H Microphone

DIP switch

The DIP switch allows to assign an ID (01~16) to each 2W speaker unit connected to the bus.

Note: it is possible to verify the operating devices over the bus through the code 63.*



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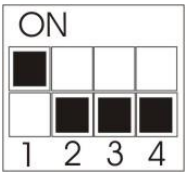

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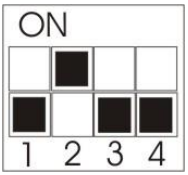

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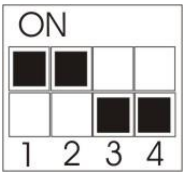

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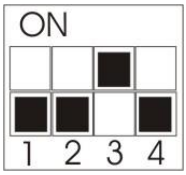

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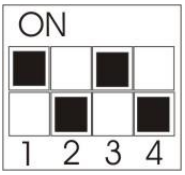

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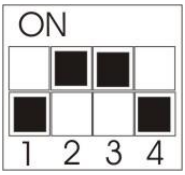

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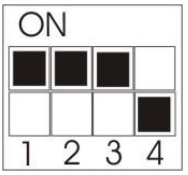

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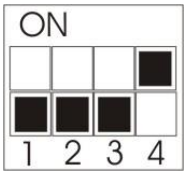

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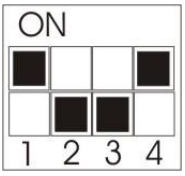

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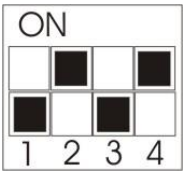

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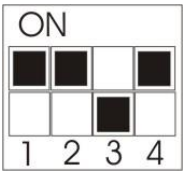

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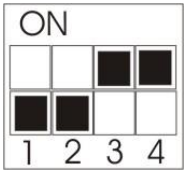

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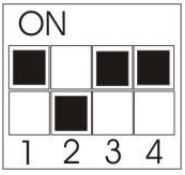

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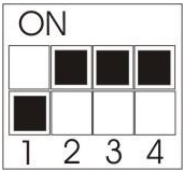

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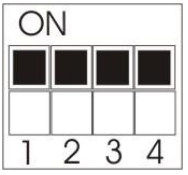

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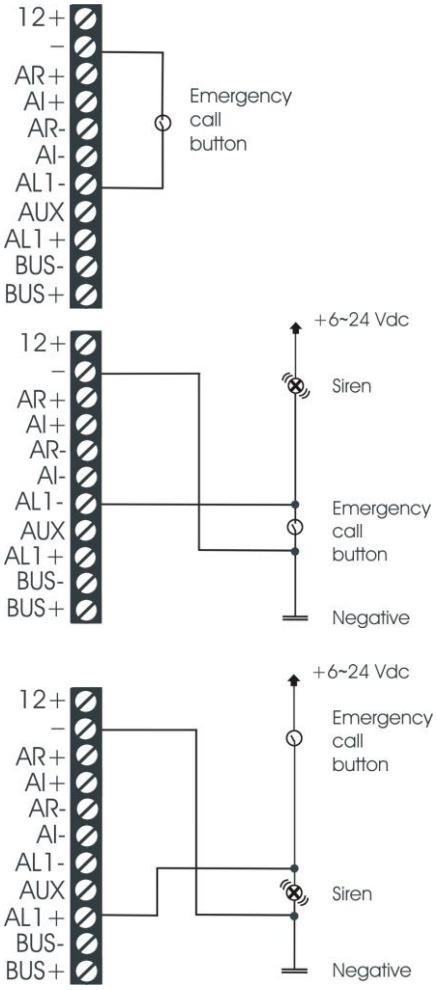
CONNECTING THE EMERGENCY CALL BUTTONS

It is possible to connect external pushbuttons (voltage free contact pushbuttons or powered pushbuttons) to 2W speaker units.

- Connect, following one of the diagrams shown below, the external pushbutton to the 2W speaker unit.

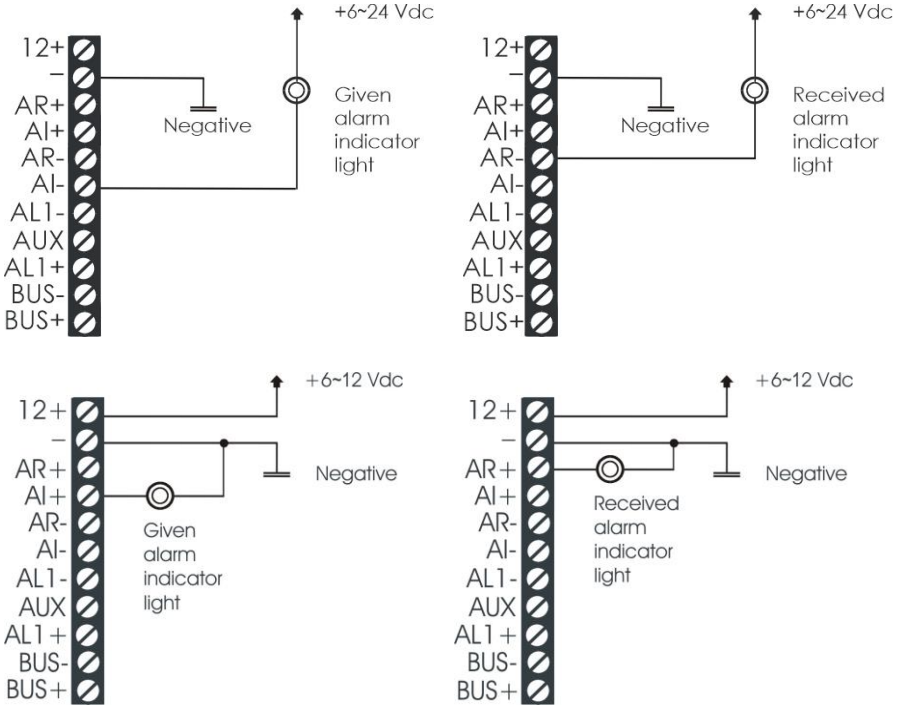


CONNECTING THE INDICATOR LIGHTS

The GIVEN ALARM INDICATOR LIGHT (yellow) switches on after pressing the emergency button to indicate the beginning of the alarm procedure. The RECEIVED ALARM INDICATOR LIGHT (green) switches on when the alarm call is answered.

Some 2W speaker unit models come with built-in indicator lights. It is also possible to connect external indicator lights.

- Connect, following one of the diagrams shown below, the external indicator lights to the 2W speaker unit.



OTHER CONNECTIONS

CONNECTING THE LOCAL TELEPHONE

- Connect the local telephone for programming and managing the device to TEL terminals (irrespective of the polarity).

CONNECTING THE FILTER INPUT

- Connect the filter contact as per one of the modes shown in the table:

C3-4 TERMINAL CONNECTED TO:	FILTER CONTACT TERMINAL BLOCKS
+12V	IN1 / –
–	IN1 / +12V
external reference	IN1 / external reference

Note: if a 2W speaker unit is installed in the cabin, it is possible to use the terminal block's filter input of the speaker unit (AUX and – terminal blocks).

CONNECTING THE RELAYS

- Connect the outputs RL1 and RL2 to the external devices.

CONNECTING THE SIREN

- Connect the siren to +12 and SIR terminals.

CONNECTING THE AUXILIARY INPUT

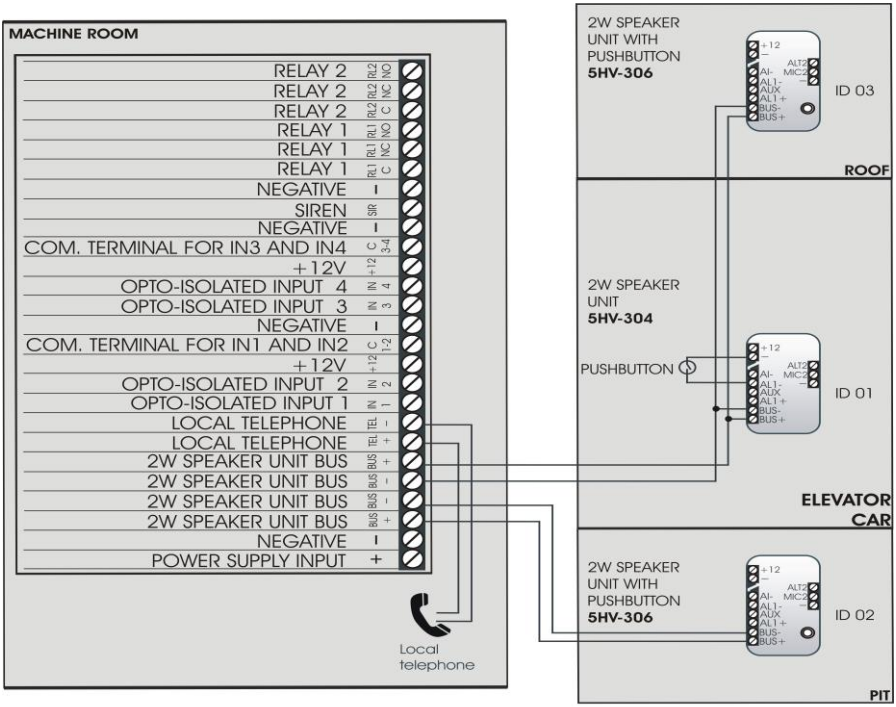
2W speaker units come with an AUX input (configurable as auxiliary input, alarm input or filter input).

- Connect the external contact to AUX and – terminals.

Note: the AUX input can be configured either as normally open or closed.

WIRING DIAGRAMS

STANDARD CONFIGURATION



NOTE
- Up to16 2W speaker units can be connnected to the bus (4 with direct power supply from the bus and 12 with separate power supply)
- It is possible to connect to each 2W speaker unit an external microphone and speaker

MINIMUM OPERATIONS TO VERIFY PROPER INSTALLATION

1. PROGRAMMING

- Access to programming: lift the local telephone handset and dial [*][0][#].

The programming activated message will be heard.

- Program a telephone number for the emergency-call alarm: dial [2][1][0][1][1][2] <telephone number> [#].
- Record the identification message of the specific elevator, which is meant to contain all necessary information concerning the elevator location: dial [7][1][0][1] and, after the "Correct" message, pronounce the message and hang up.
- To listen again to the previous message: lift the handset and dial [7][2][0][1].
- Make an external call to check the telephone line is properly working: dial [0] and, after the "Correct" message, digit the telephone number to make a test call.

2. TESTING THE ALARM PROCEDURE

- Press the emergency call button for more than 3 seconds (factory value).

The alarm starts.

3. ANSWERING THE ALARM

Note: the activation mode of the communication with the trapped person can be configured with the "Two-way communication mode during an alarm" programming (code 78).

-1st mode: automatic two-way communication established after messages

- Answer by the called party.

The two-way communication mode will be activated after the voice messages.

- Speak with the trapped person.

-2nd mode: two-way communication established after input of "Communication activation" code

- Answer by the called party.

The voice messages will be heard.

- Press [0] to speak with the trapped person.

-3nd mode: immediate and automatic two-way communication (no messages) (factory default)

- Answer by the called party.
- Speak with the trapped person.

4. RESETTING THE ALARM

Note: the alarm reset mode can be configured with the "Alarm reset mode" programming (code 77).

-1st mode: reset by "End" code

- Press [9] to end the alarm.

-2nd mode: automatic reset (factory default)

- Hang up (or press [9]) to end the alarm.

-3nd mode: automatic reset with local acknowledgement

- Hang up to end the call.
- Close the reset input or press the reset pushbutton to end the alarm.

An end-of-alarm call will be generated.

- Answer by the called party.
- Press [9].

If the reset input is not closed within 6 hours, the alarm is automatically ended.

*Note: in case it should not be possible to stop the alarm procedure remotely (i.e. the entered telephone number is incorrect) simply lift the handset of the local telephone and dial * <Password> # (by factory default: [*][0][#]) or press the reset pushbutton.*

USING THE RESET BUTTON

Note: the reset operation does not alter the previously set parameters.

Use of the reset pushbutton (D in the picture at page 2):

- Pressing shortly
  Allows to interrupt an alarm call.
  By pressing shortly you get the same result as lifting the handset of the local telephone and entering * <Password> #.
- Pressing longer (10 seconds)
  Allows to reset the device.
  By pressing longer, the Synplicity 4G.VoLTE will be re-started with no need to disconnect the power supply.

  *Note: it is also possible to reset the device through the code 995*0#.*

BATTERY REPLACEMENT

ATTENTION
Only use replacement batteries supplied by Syntium.

PROGRAMMING

In the tables below:

- **INST** indicates that the programming is allowed for the installer
- **OPER** indicates that the programming is allowed by the maintenance technician
- factory default values are highlighted in bold

Basic programming

<table>
<tr><th colspan="6">BASIC PROGRAMMING</th></tr>
<tr><td>ACCESS TO PROGRAMMING</td><td colspan="5">[*] < INSTALLER or OPERATOR PASSWORD > [#]
(factory default: [*] [0] [#])</td></tr>
<tr><td>EXITING THE PROGRAMMING</td><td colspan="5">[*] < INSTALLER or OPERATOR PASSWORD > [#]
(factory default: [*] [0] [#])</td></tr>
<tr><td rowspan="9">TELEPHONE NUMBERS (INST)

* the programming of the telephone number automatically activates the alarm/call</td><td rowspan="9">[2] [1]</td><td rowspan="9">[X] [X]
(position from 01 to 24)</td><td>SOURCE</td><td>RECEIVER</td><td rowspan="9">[X]..[X] [#]
(X..X = telephone number, max. 20 digits;
* = 2 sec-pause)</td></tr>
<tr><td>[1] emergency-call button</td><td>–</td></tr>
<tr><td>[2] battery alarms *</td><td>[2] USER</td></tr>
<tr><td>[3] periodic automatic test call *</td><td>[3] ESSE-TI</td></tr>
<tr><td>[4] 2W speaker unit connection failure alarm *</td><td>[4] CLI</td></tr>
<tr><td>[5] SIM card expiring alarm</td><td>[5] SMS</td></tr>
<tr><td>[6] speaker/MIC test failure alarm *</td><td>[6] P100</td></tr>
<tr><td>[7] no external power supply alarm</td><td>–</td></tr>
<tr><td>[8] auxiliary alarm</td><td>–</td></tr>
<tr><td>[9] end of alarm</td><td>–</td></tr>
</table>

BASIC PROGRAMMING				
DELETE A TELEPHONE NUMBER (INST)	2 1	X X (position from 01 to 24)	#	
DATE (INST)	3 6	WEEKDAY	X X (dd) X X (mm) X X (yy)	
		0 SUNDAY		
		1 MONDAY		
		2 TUESDAY		
		3 WEDNESDAY		
		4 THURSDAY		
		5 FRIDAY		
		6 SATURDAY		
TIME (INST)	3 5	X X X X (hhmm, from 0000 to 2359)		
RECORD MESSAGES (INST)	7 1	0 1 identification message (max. 25s)	(record)	(hang up)
		0 2 courtesy message (max. 25 s)		
LISTEN TO MESSAGES (INST/OPER)	7 2	0 1 identification message	(listen)	
		0 2 courtesy message		
LISTEN TO THE ID OF SPEAKER UNITS OPERATING OVER THE BUS (INST)	6 3 *			
LOW BATTERY ALARM (INST)	5 2	0 **disabled alarm**		
		1 enabled alarm		

BASIC PROGRAMMING					
REPLACE BATTERY ALARM (INST)	5 6	0 **disabled alarm**			
		1 enabled alarm			
	Manually forcing a battery test		5 6 3		
AUTOMATIC TEST DATA (INST)	Frequency	3 1	X (days, from 1 to 9; factory default **3**)		
	Time	3 2	X X X X (hhmm, from 0000 to 2359; factory default **0400**)		
	Automatic test alarm	3 4	0 **automatic test disabled**		
			1 automatic test enabled (EN 81-28:2018)		
			3 automatic test enabled (EN 81-28:2004)		
	Make a test call manually		3 4 2		
PROTOCOLS IDENTIFICATION CODE (INST)	2 2	2 Esse-ti	X...X (identification code)		[#]
		3 P100			
SPEAKER UNITS VOLUME (INST/OPER)	8 0	X X speaker unit ID (from 01 to 16)	X loudspeaker (from 1 to 9; factory default **4**)	X microphone (from 1 to 9; factory default **6**)	[#]
VOLUME OF LANDING FLOOR MESSAGES (INST/OPER)	8 1	X (from 1 to 4; factory default **3**; 4=loudspeaker volume, 3=¾ of loudspeaker volume, 2=½ of loudspeaker volume, 1=¼ of loudspeaker volume)			
LISTEN TO THE PROGRAMMING AGAIN (INST)	X...X (programming code prefix) *				
RESTORE FACTORY SETTINGS (INST)	9 9 * 0 # (programming excluding telephone numbers)				
	9 9 3 * 0 # (programming including telephone numbers)				
	9 9 7 * 0 # (all programming and settings)				

Advanced programming

ADVANCED PROGRAMMING				
CHANGE THE INSTALLER PASSWORD "0" (INST)	9 1	X X [*] (old)	X X [*] (new) X X [*] (new)	
CHANGE THE OPERATOR PASSWORD "1" (INST)	9 2	X X [*] (old)	X X [*] (new) X X [*] (new)	
INPUTS NORMALLY OPEN/CLOSED (INST)	4 1	X input (1=IN1 2=IN2 3=IN3 4=IN4)	X type (0=normally closed **1=normally open**)	#
SYNPLICITY 4G.VOLTE INPUTS SETTING* (INST/OPER) * for the complete configuration of the inputs, please refer to the Expert Programming Guide or use e-stant software or e-stant web application	5 5	0 IN1=alarm / IN2=reset / IN3=bist. / IN4=bist. 1 IN1=filter / IN2=reset / IN3=bist. / IN4=bist. 2 IN1=alarm / IN2=alarm / IN3=gong / IN4=filter 3 IN1=alarm / IN2=aux / IN3=gong / IN4=filter 4 IN1=alarm / IN2=reset / IN3=filter /IN4=aux 5 IN1=aux / IN2=reset / IN3=gong / IN4=filter 6 IN1=aux / IN2=reset / IN3=alarm / IN4=alarm 7 IN1= alarm / IN2=reset / IN3=aux / IN4=aux 8 IN1=alarm / IN2=alarm / IN3=alarm / IN4=reset in listening mode the value 9 indicates customized inputs (factory default: **IN1=filter input** / **IN2=gong input / IN3=auxiliary input / IN4=alarm input**)	

ADVANCED PROGRAMMING		
EXAMPLE OF INPUT CONFIGURATION (INST)	Configuration: IN2= technician on site input IN3= out of service input IN4= rides counter input Codes to enter to: - configure IN2 input as bistable input: **390207** **-** configure IN3 input as bistable input: **390307** **-** configure IN4 input as counter input: **390406** **-** set the telephone number for technician on site notification: **201 13 15 X <telephone number> #** **-** set the telephone number for the technician's departure notification: **201 14 16 X <telephone number> #** **-** set the telephone number for out of service notification: **201 15 17 X <telephone number> #** **-** set the telephone number for lift in service notification: **201 16 18 X <telephone number> #** **-** set the telephone number for counter notification: **201 17 19 X < telephone number > #** where X= receiver (notification mode): 2= user 3= Esse-ti 4= CLI 5= SMS 6= P100 - if receiver 3, set the Esse-ti protocol ID: **222 YYYYYYYYYY** - if receiver 6, set the P100 protocol ID: **223 ZZZZZZZZZZ** - if receiver 6, you can customize the P100 protocol codes using the e-stant software or e-stant web application or via SMS (programming code 203) - if receiver 5, you can customize the SMS text using the e-stant software or e-stant web application or via SMS (programming code 202) - set the number of rides: **2614X…X#** where X…X= rides number (factory default 1000) Note: IN2 and IN3, when set as bistable inputs, are automatically configured as normally closed; if the connected contacts are normally open: - configure IN2 input as normally open: **4121#** - configure IN3 input as normally open: **4131#**	
EMERGENCY CALL BUTTONS DELAY (INST)	4 2	X (seconds, from 2 to 9; factory default **3**)

ADVANCED PROGRAMMING				
INSUFFICIENT BUTTON PRESSURE MESSAGE SETTING (INST)	9 0 0 4 1	0 **disabled message**		
		1 enabled message		
BEEP ENABLING WHEN 2W SPEAKER UNIT PUSHBUTTON IS PRESSED (INST)	2 7 2	0 **beep disabled**		
		1 beep enabled		
PUSHBUTTON CONNECTION FAILURE NOTIFICATION (INST)	2 4 1	X type (0=notification **1=emergency-call**)		X frequency (**1=10 minutes** 2=1 hour 3=1 day)
2W SPEAKER UNIT INPUTS SETTING (INST)	4 0	X X speaker unit ID (from 01 to 16)	X AL1 (0=normally closed **1=normally open**)	X AUX (0=alarm NC **1=alarm NO** 2=auxiliary NC 3=auxiliary NO 4=filter NC 5=filter NO
NO EXTERNAL POWER SUPPLY ALARM (INST)	5 1	0 0 disabled alarm		
		X X enabled alarm with XX minutes delay (from 01 to 99; factory default **10**)		
SPEAKER/MIC TEST FAILURE (INST)	5 4	0 **disabled alarm**		
		1 enabled alarm		
2W SPEAKER UNIT CONNECTION FAILURE ALARM (INST)	5 9	0 disabled alarm		
		1 **enabled alarm**		
SIM CARD EXPIRING ALARM (INST)	2 4 3	X X (months, from 01 to 30; **00**= disabled alarm)		
FILTER ACTIVATION (INST/OPER)	5 3	0 disabled		
		1 **enabled**		

ADVANCED PROGRAMMING			
FILTER BYPASS (INST/OER)	49	XX (seconds, from 15 to **30;** 99=no bypass)	
ALARM OPERATION WITHOUT TELEPHONE LINE (INST)	25	1 AI indicator light lit and courtesy message	
		2 AI indicator light unlit and no courtesy message	
		3 **AI indicator light lit and no courtesy message**	
REPEATS OF COURTESY MESSAGE DURING AN ALARM (INST)	270	XX (seconds between two courtesy messages, from 02 to 59; 00=no courtesy message; **01=one courtesy message for each call**)	
CALL DELAY AFTER COURTESY MESSAGE (INST)	9002	X (seconds of waiting after the courtesy message before sending the call, from **0** to 9)	
PLAYBACK OF "COMMUNICATION ACTIVATED" MESSAGE WHEN THE SPEAKER UNIT IS ACTIVATED (INST)	271	0 **never**	
		1 only in case of remote connection	
		2 always	
TWO-WAY COMMUNICATION MODE DURING AN ALARM (INST)	78	0 two-way communication established after input of "Communication activation" code	
		1 automatic two-way communication established after messages	
		2 **immediate and automatic two-way communication (no messages)**	
ALARM RESET MODE (INST)	77	0 **automatic reset**	
		1 alarm reset by "End alarm" code	
		2 automatic reset with local acknowledgement	
"PLAY IDENTIFICATION MESSAGE" CODE (INST)	47	X...X (from 1 to 3 digits; factory default **5**)	[#]

ADVANCED PROGRAMMING			
"COMMUNICATION ACTIVATION" CODE (INST)	45	X...X (from 1 to 3 digits; factory default **0**)	[#]
"END ALARM" CODE (INST)	43	X...X (from 1 to 3 digits; factory default **9**)	[#]
DURATION OF TWO-WAY COMMUNICATION DURING AN ALARM (INST)	46	X (minutes, from 2 to 9; factory default **5**)	
RESTORE FACTORY MESSAGES (INST)	74	01 identification message 02 courtesy message	
LANGUAGE (INST)	79	XX (language: 00 Italian, **01 English**, 02 German, 03 French, 04 Polish, 05 Portuguese, 06 Russian,07 Spanish)	
MULTI-LANGUAGE COURTESY MESSAGE (INST)	89	XX (second language) / XX (third language)	[#]
CALL CYCLES FOR EMERGENCY CALL ALARMS (INST)	69	X (cycles, from 1 to 9; **0**=unlimited)	
CALL CYCLES FOR TECHNOLOGICAL ALARMS AND TEST CALLS (INST)	62	X (cycles, from 1 to 9; 0=10 cycles; factory default **3**)	
NUMBER OF CALLS TO THE SAME NUMBER FOR EACH CYCLE (INST)	60	X (calls, from **1** to 9)	
WAITING TIME BETWEEN EMERGENCY CALLS TO THE SAME NUMBER (INST)	57	X (from **0** to 9; 0=30 seconds, 1=60 seconds, 2=90 seconds, …, 9=300 seconds)	

ADVANCED PROGRAMMING			
WAITING TIME BETWEEN TECHNOLOGICAL OR TEST CALLS TO THE SAME NUMBER (INST)	5 8		X X (minutes, from 01 to 99; 00=30 seconds, factory default **02**)
DURATION OF CALL TO EACH NUMBER (INST)	9 0 0 6 7		X X (seconds, from 15 to **60**)
DURATION OF CLI CALL (INST)	6 7		X (seconds, from 00 to 99; factory default **10**)
AUTOMATIC ANSWER (INST)	6 4		X (ring number, from 1 to 9; 0=disabled; factory default **2**)
OPERATION MODE AFTER AUTOMATIC ANSWER (INST)	7 6		0 **programming mode**
			1 direct connection with the car
CONNECTION DURATION AFTER AUTOMATIC RESPONSE (INST)	6 5		X (minutes, from 1 to 9; factory default **3**)
RELAY SETTING (INST)	7 5	X Relay	1 same behaviour as outputs AI
			2 same behaviour as outputs AR
			3 **active for external power failure** [factory default relay 1]
			4 **door opener** [factory default relay 2]
			5 active as long as the emergency alarm progresses
			6 active as long as the buttons are pressed
			7 active for telephone line failure
			8 active for low battery
RELAY INTERMITTENCE (INST)	3 0	X Relay	0 **steady-state**
			1 intermittent (500 ms ON / 500 ms OFF)

ADVANCED PROGRAMMING				
DURATION OF ACTIVATION OF DOOR OPENER (INST)	9 0 0 8 2	X Relay	XX seconds (from 01 to 99; 00=infinite time; factory defaullt **02**)	
SIMULTANEOUS SWITCHING ON OF AI LEDS ON THE FIRST 3 2W SPEAKER UNITS DURING THE ALARM (INST)	9 0 0 1 3	0 **disabled**		
		1 enabled		
DTMF GENERATOR SETTING (INST)	8 3	0 DTMF generated by mobile network		
		X DTMF generated by Synplicity 4G.VoLTE (DTMF duration=X·50 ms; from 1 to 9; factory default **2**)		
DISABLE ROAMING (INST)	7 0 0	XXX (MCC)	XX (MNC)	#
ENABLE ROAMING (INST)	7 0 0 #			
ENTER SIM CARD PIN CODE (INST)	2 8 2	X ... X (PIN) *	X ... X (PIN) *	
DISABLE SIM CARD PIN REQUEST (INST)	2 8 3	X ... X (PIN) *	0	
COMMUNICATION TECHNOLOGY SETTING (INST)	5 0 0 3 3	0 GSM		
		1 GSM /UMTS		
		2 UMTS		
		3 LTE		
		4 UMTS / LTE		
		5 GSM / LTE		
		6 **GSM / UMTS / LTE**		

<table>
<tr><th colspan="4">ADVANCED PROGRAMMING</th></tr>
<tr><td>LISTEN TO THE MOBILE NETWORK SIGNAL LEVEL (INST)</td><td colspan="3">2 4 4
<table><tr><th>Digits</th><th>Quality</th></tr><tr><td>0</td><td>no signal</td></tr><tr><td>1</td><td>low signal
(connection not guaranteed)</td></tr><tr><td>2</td><td>medium signal</td></tr><tr><td>3</td><td>good signal</td></tr><tr><td>4</td><td>high signal</td></tr></table></td></tr>
<tr><td>RECEIVER GAIN ADJUSTMEN (INST)</td><td>9 3 0 8 5</td><td colspan="2">X (value, from 1 to 6; 3 factory default;
do not change unless it is strictly necessary)</td></tr>
<tr><td>TRANSMITTER GAIN ADJUSTMENT (INST)</td><td>9 3 0 8 6</td><td colspan="2">X (value, from 1 to 7; 4 factory default;
do not change unless it is strictly necessary)</td></tr>
<tr><td>DURATION OF VOLTE DTMF TONES OUT OF BAND (INST)</td><td>5 0 0 0 6</td><td>X...X (value, from 0 to 255;
DTMF duration = (X…X)·10 ms;
10 factory default (= 100 ms);
do not change unless it is strictly necessary)</td><td>#</td></tr>
<tr><td>VOLUME OF VOLTE DTMF TONES OUT OF BAND (INST)</td><td>5 0 0 0 7</td><td colspan="2">X (volume, from 0 to 9; 5 factory default;
do not change unless it is strictly necessary)</td></tr>
<tr><td>APN SETTING (INST)</td><td>9 8 2</td><td>APN[,user,pwd]</td><td>#</td></tr>
<tr><td>E-STANT WEB DATA NOTIFICATION SETTING (INST)</td><td>2 9 0</td><td colspan="2">0 notification to e-stant web disabled
1 notification to e-stant web enabled</td></tr>
<tr><td>INCREASING THE VOLUME OF THE IDENTIFICATION MESSAGE (INST)</td><td>9 3 0 8 3</td><td colspan="2">X (value, from 0 to 5)</td></tr>
<tr><td>LISTEN TO THE BATTERY LEVEL (INST)</td><td colspan="3">3 8 * (expressed in mV)</td></tr>
<tr><td>LISTEN TO THE EXTERNAL POWER SUPPLY LEVEL (INST)</td><td colspan="3">3 7 * (expressed in mV)</td></tr>
</table>

ADVANCED PROGRAMMING		
TEST OF ALARMS (INST)	90099	01 emergency-call button
		02 battery alarm
		03 periodic automatic test call
		04 2W speaker unit connection failure alarm
		05 SIM card expiring alarm
		06 speaker/MIC test failure alarm
		07 no external power supply alarm
		08 auxiliary alarm
		09 end of alarm

Programming via microSD card

The microSD card properly set allows to:
- program the Synplicity 4G.VoLTE
- update the firmware of the Synplicity 4G.VoLTE
- customize the messages of Synplicity 4G.VoLTE.

To use of the microSD card see the relating instructions.

Local programming via *e-stant* software

It is possible to program Synplicity 4G.VoLTE via computer by using the USB/serial proprietary cable and the dedicated *e-stant* software.

e-stant software also allows to:
- update the firmware of the Synplicity 4G.VoLTE
- customize the messages of the Synplicity 4G.VoLTE
- set a microSD card to use for programming, customizing the messages and updating the firmware of the Synplicity 4G.VoLTE.

Remote programming via *e-stant web*

It is possible to remotely program Synplicity 4G.VoLTE via the *e-stant web* application:

https://e-stant.esse-ti.it/

The *e-stant web* application also allows you to receive data notifications of Synplicity 4G.VoLTE events.

Programming via SMS

All parameters programmable locally by the local telephone may also be set via SMS.

Programming via SMS is possible by any mobile phone or other device supporting SMS.

An SMS notifying the programming was performed is sent by the Synplicity 4G.VoLTE to the number that sent the programming.

ATTENTION
Programmed performed via SMS sent from the Internet could not have a positive result if the required format is not followed.

MESSAGE FORMAT

Each programming SMS must contain the password, which allows access to programming, and the programming codes to be performed.

The message format must be as follows:

Et.he *xxx# c..c c..c

Where:

Et.he : is the start of the programming string

*xxx# : is the password string (default installer password xxx = 0)

c..c : is the programming code

The strings and programming codes must be separated by a space.

Refer to the related paragraphs for the programming codes.

NOTIFICATION MESSAGE FORMAT

The format of the notification message to the user who sent a programming SMS is similar to the programming message:

Et!he *xxx# c..c c..cERROR

Where:

Et!he : is the start of the notification string

*xxx# : is the password string (default installer password xxx = 0)

c..c : is the accepted programming code

c..cERROR : is the refused programming code

USE

Local use

: lift the local telephone handset

: lift the local telephone handset and dial [*][0][#] to access programming

LOCAL USE	
CONVERSATION WITH THE SPEAKER UNITS	CABIN SPEAKER UNIT (ID 01) [1][1] CABIN SPEAKER UNIT (ID 01) [1][2] SPEAKER UNIT (ID 02) [1][3] SPEAKER UNIT (ID 03) [1][*][X][X] SPEAKER UNIT ID XX (04~16) [1][*][9][9] SPEAKER UNIT ID 01-02-03
PROGRAMMING	[*] ... [*]
CONVERSATION WITH THE SPEAKER UNITS	[1][1] CABIN SPEAKER UNIT (ID 01) [1][2] SPEAKER UNIT (ID 02) [1][3] SPEAKER UNIT (ID 03) [1][*][X][X] SPEAKER UNIT ID XX (04~16) [1][*][9][9] SPEAKER UNIT ID 01-02-03 [1][0] DEACTIVATE ALL
EXTERNAL CALLS	[0] <TELEPHONE NUMBER>
DOOR OPENER RELAY	[8][2][1][1] ACTIVATE RELE 1 [8][2][2][1] ACTIVATE RELE 2 [8][2][1][0] DEACTIVATE* RELE 1 [8][2][2][0] DEACTIVATE* RELE 2 *WHEN THE ACTIVATION TIME IS INFINITE

Use remotely with Synplicity 4G.VoLTE at rest

- Call Synplicity 4G.VoLTE and wait for a response.
- Listen to the elevator identification message, if present.
- Dial:
  1 1 to speak with the cabin speaker unit (ID 01)
  1 2 to speak with the speaker unit (ID 02)
  1 3 to speak with the speaker unit (ID 03)
  1 * X X to speak with the cabin speaker unit ID XX (04~16)
  1 * 9 9 to speak simultaneously with the speaker units ID 01-02- 03

or

- Dial * <password> # (factory default: * 0 #) to access programming.
- All of the programming and functions below can now be performed:

USE REMOTELY WITH SYNPLICITY 4G.VOLTE AT REST	
PROGRAMMING	* … *
CONVERSATION WITH THE SPEAKER UNITS	1 1 CABIN SPEAKER UNIT (ID 01 1 2 SPEAKER UNIT (ID 02) 1 3 SPEAKER UNIT (ID 03) 1 * X X SPEAKER UNIT ID XX (04~16) 1 * 9 9 SPEAKER UNIT ID 01-02-03 1 0 DEACTIVATE ALL
DOOR OPENER RELAY	8 2 1 1 ACTIVATE RELE 1 8 2 2 1 ACTIVATE RELE 2 8 2 1 0 DEACTIVATE* RELE 1 8 2 2 0 DEACTIVATE* RELE 2 *WHEN THE ACTIVATION TIME IS INFINITE

SIGNALS

LED signalling alarm / periodical test call (yellow)

Emergency-call alarm

Emergency call alarm suspended

Other alarms - Test call

LED signalling mobile network signal strength (green)

No signal

Low signal level (2G/3G/4G network – VoLTE not available; connection not guaranteed)

Medium signal level (2G/3G/4G network – VoLTE not available)

Good signal level (2G/3G/4G network – VoLTE not available)

High signal level (2G/3G/4G network – VoLTE not available)

Low signal level (4G network – VoLTE available)

Medium signal level (4G network – VoLTE available)

Good signal level (4G network – VoLTE available)

High signal level (4G network – VoLTE available)

LED signalling device status **(red)**

Normal operation (no alarm)

Alarm

Voice connection

Battery disconnected or low battery (max. 1-hour operation in idle state)

2W speaker unit connection error or bus problem

Absence of telephone line

Button failure

LED signalling power supply status (blue)

The external power supply is connected and the battery has max capacity charge

The external power supply is connected and the battery has good capacity charge

The external power supply is connected and the battery has medium capacity charge

The external power supply is connected and the battery has low capacity charge

The external power supply is connected and the battery is either disconnected or dead

The external power supply is disconnected and the battery guarantees more than 7-hour operation in idle state

The external power supply is disconnected and the battery guarantees up to 7-hour operation in idle state

The external power supply is disconnected and the battery guarantees 2-hour operation in idle state

The external power supply is disconnected and the battery guarantees 1-hour operation in idle state

Given alarm indicator light (yellow)

Alarm

Received alarm indicator light (green)

Voice connection

Missed test call notification (EN 81-28:2018)

The Given alarm indicator light and the Received alarm indicator light flash in opposition to indicate the failure of the automatic test call.

The flashing sequence ends after the next successful test call or emergency call.

Given alarm indicator light

Received alarm indicator light

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