

esse-ti ST56 INTL Alarm System For Elevators Compliant User Guide

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Alarm system for elevators compliant with the European Standard EN 81-28:2018 ST56 INTL QUICK GUIDE

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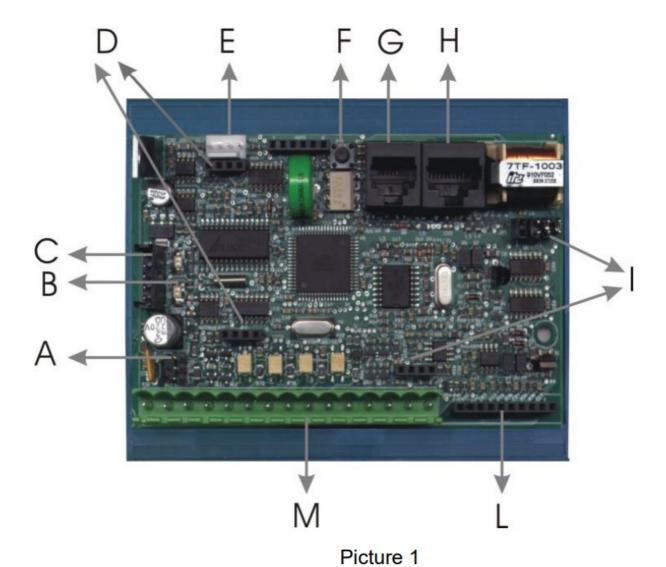
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C)

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DESCRIPTION



A Jumper JP8 for define the behaviour of alarm inputs AL1 and AL2

B LEDs signalling device status (red) and GSM200-C signal strength (green)

C Connector for Esse-ti power supply (12 Vdc)

D Connectors for optional relay board

E Serial plug for connection to elevator CPU

F Reset pushbutton

G RJ11 connector for local telephone

H RJ45 connector for GSM200-C module

I Connectors for optional PSTN-line board

L Connector for FlashKey

M Terminal blocks

Terminal blocks

BATT	12 Vdc power supply input
AR	Received alarm indicator light
Al	Given alarm indicator light
+ 12	Output 12 Vdc (max. 100 mA)
AL1	Alarm input 1
AL2	Alarm input 2
СОМ	Common terminal for inputs IN1 and IN2
IN1	Alarm filter input
IN2	Gong input or auxiliary alarm input
VV2+	Output speaker unit 2
VV2-	Common speaker unit 2
VV1+	Output speaker unit 1
VV1-	Common speaker unit 1
TEL	Local Telephone

Optional PSTN-line board

LTI	PSTN-line or universal gateway input
<u>÷</u>	Ground terminal

Optional relay board

RL1	Relay contact 1
RL2	Relay contact 2

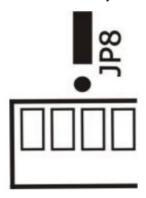
Jumper JP8 for inputs AL1 and AL2

The jumper JP8 (A in picture 1) defines the behaviour of the inputs AL1 and AL2.

The inputs AL1 and AL2 are at +12V; the alarm occurs when they are closed to a – terminal (e.g. VV2-).



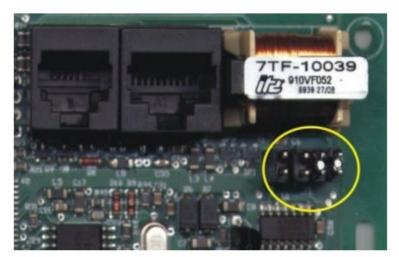
The inputs AL1 and AL2 are at 0V; the alarm occurs when they are closed to +12V.



CONNECTING THE TELEPHONE LINE

The alarm system is ready for connection to the GSM200-C module. It allows the connection of a PSTN line or a universal gateway (2G/3G/4G) with the optional PSTN-line board. **GSM200-C module connection**

 Make sure the jumpers are present in the dedicated connector for the PSTNline board, by observing the positioning below:





Picture 2

- Connect the RJ45 connector (H in picture 1) to the GSM200-C module by means of the supplied cable. PSTN line or universal gateway (2G/3G/4G)
- Remove the jumpers set in the dedicated connector for the PSTN-line board (s. picture 2).
- Insert the optional board in the dedicated connectors (I in picture 1).
- Connect the PSTN line to the LTI terminal blocks placed on the optional board.
- Connect the ground terminal (indicated by increase the telephone line protection.
 - Remark: it is recommended to keep the jumpers removed in order to use them again in case you should wish to get back to the GSM200-C line. It is possible to place them on the connector located on the optional PSTN-line board.

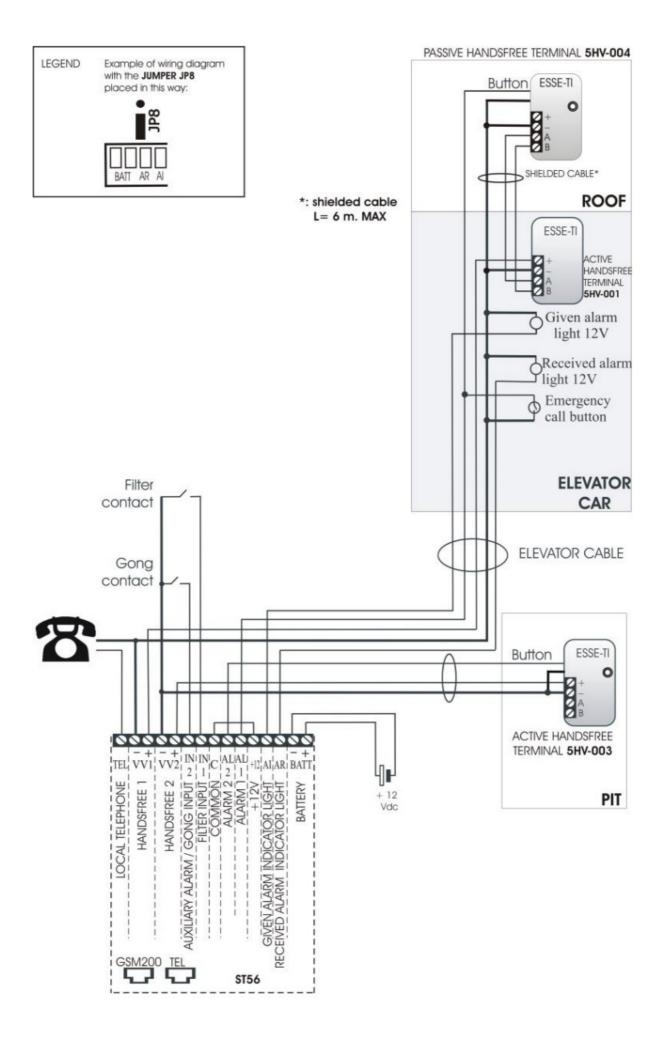
CORRECT OPERATION CHECKLIST

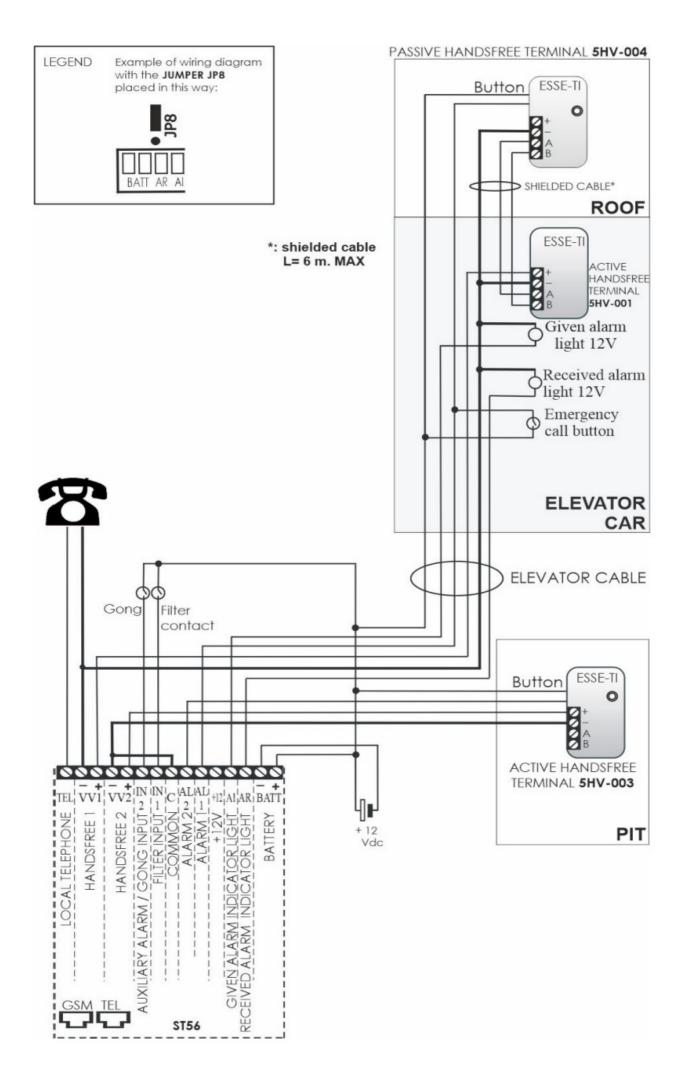
1. PROGRAMMING

	➤ Access to programming: lift the local telephone handset and dial ★ ① ##
	You will hear the dialling tone (one longer tone followed by a shorter tone).
	> Program the telephone line type:dial 6 6 1 for GSM200-C module or 6 6 0 for PSTN line or
	universal gateways (2G/3G/4G).
	> Program a telephone number for the emergency-call alarm: dial 210112 < telephone number >
	> Record the identification message of the specific elevator (max. 22 seconds), which is meant to contain all
	necessary information concerning the elevator location: dial 7101, pronounce the message and hang up.
	> To listen again to the previous message, lift the local telephone handset and dial: 7 2 0 1.
	> Make an external call to check the telephone line presence: dial and digit the telephone number to make a test call.
2.	ALARM PROCEDURE CHECK
	➤ Press the emergency button.
	The emergency call will be made.
3.	ANSWERING AN ALARM
	-1st mode: handsfree connection by "Handsfree activation" code (factory default)
	➤ Answer by the called party.
	The voice messages will be heard.
	➤ Press to speak with the trapped person.
	-2nd mode: automatic handsfree connection
	➤ Answer by the called party.
	➤ Speak with the trapped person.
	Remark: you can choose the 1 st or the 2 nd mode with the "Handsfree connection mode" programming (code
	78).
4.	RESETTING AN ALARM
	-1nd mode: reset by "End" code (factory default)
	➤ Press to end the alarm2 st mode: automatic reset
	➤ Hang up or press to end the alarm.
	Remark: you can choose the 1 st or the 2 nd mode with the "Alarm reset mode" programming (code 77).
	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:</password>
	★ □ #

WIRING DIAGRAMS

Example connection





PROGRAMMING

In the tables below:

- INST indicates that the programming procedure is allowed for the installer;
- OPER indicates that the programming procedure is allowed for the operator;
- factory default values are highlighted in bold.

Basic programming

BASIC PROGRAMMING							
ACCESS TO PROGR AMMING	INSTALLER or OPERATOR PASSWORD>						
EXITING THE PROGRAMMING	INSTALLER or OPERATOR PASSWORD> (by default: X0 #)						
TYPE OF TELEPHON		PSTN line or universal gateway (2G/3G/4G) (with optional board)					
E LINE (INST)	66	GSM2	GSM200-C module				
			SOURCE	RECEIVER			
			emergency-call button	ADEMCO			
			technologic al / diagnostics al arm	2 _{USER}			
			periodic test	3 _{ESSE-TI}			
			_	4 _{CLI}			
TELEPHONE NUMBE RS (INST)	(position fr om 01 to 1 2)	alarm sent alert notification	SMS (only with GSM200-C)	(XX = telepho ne number, max. 2 0 digits; * = 2 sec- p			
			alarm termi nated alert notific ation	6 _{P100}	ause)		
DELETING TELEPHO NE NUMBER (INST)	1 2	(position from 01 to 12)		12#			

BASIC PROGRAMMING						
HANDSFREE CONNECTION	78	handsfree activation by "Handsfree activation" code				
MODE (INST))	automatic handsfree activation				
ALARM RESET	77	automatic reset				
(INST)	9	alarm reset by "End" code				
		weekday				
		SUNDAY				
		1 MONDAY				
DATE	(a)	2 TUESDAY				
(INST)	36	3 WEDNESDAY XX(dd) XX(mm) XX (yy)				
		4 THURSDAY				
		5 FRIDAY				
		6 SATURDAY				
TIME (INST)	35	XXXX (hhmm; from 0000 to 2359)				
RECORD MESSAGES (INST)	70	Olidentification message (max. 22 sec.) (beep) record (max. 22 sec.)				
LISTEN TO MESSAGES (INST/OPER)	72	O 1 identification message O 2 courtesy message (listen)				
INSTALLATION		1 active speaker unit				
TYPE (INST)	63	2 active speaker unit				
DEAD BATTERY	52	O disabled alarm				
(INST)	الا	nabled alarm				
NO MAINS POWER SUPPLY		O O disabled alarm				
		Time from 01 to 99 = enabled alarm with XX minutes delay				
DIAGNOSTICS	EC	O disabled alarm				
ALARM (INST/OPER) 54						

BASIC PROGRAMMING						
ADEMCO / P100 PROTOCOL ID (INST)	221			max. 10	-digits ID:	[⊞]
ESSE-TI / P100 PROTOCOL ID (INST)	222			10-digits ID:		
	Frequenc	у	31	(days, from 1 to 9; factory default 3)		ult 3)
	Time		32	XXXX (hhmm; from 0000 to 2359)		2359)
AUTOMATIC				O auto	omatic test disabled	
TEST DATA (INST)	Automati alarm	ic test	34	automatic test enabled (EN 81-28:2018)		
				3 automatic test enabled (EN 81-28:2004)		
	Make a to manually			34	2	
SPEAKER UNIT			SPEAKER UNIT 1		1 (loudspeaker's factory default 3)	volume;
VOLUMES (INST/OPER)	80	2 SPEAKER UN		NIT 2	8~9 (microphone's sensitivity; factory default 8)	
		4 MESSAGES			message factory default 2 ; gong factory default 1)	
MESSAGES VOLUMES	80	5 DAY GONG				
(INST/OPER)		6 N	6 NIGHT GONG			
LISTENING TO PROGRAMMING	◯ (prefix programming code)					
RESTORING FACTORY DEFAULT (INST)	99					

Advanced programming

	ADVANCED PROGRAMMING					
CHANGING THE INSTALLER PASSWORD "0" (INST)	91	⊠⊠(old) ⊠				
CHANGING THE OPERATOR PASSWORD "0" (INST)	92	⊠⊠(old) ₩				

		ADVANCED PROGRAMMING
		OO Italian
		Oll English
		02 German
LANGUAGE	[7][9]	03 French
(INST)	1713)	0 4 Polish
		05 Portuguese
		017 Spanish
		12 Flemish
		Italy / Switzerland / Portugal / Poland / Bulgaria
		England
		2 Israel
		3 Greece
TONE DECODER SETTING	67	4 Austria (digital)
(INST)		5 Germany
		6 France
		7 Australia
		8 Russia / Hungary
EMERGENCY		9 Netherlands / Croatia
BUTTONS		O dosed
NORMALLY OPEN/CLOSED	41	
(INST)		Open
EMERGENCY BUTTON DELAY	42	(seconds, from 0 to 9; factory default 2)
(INST)	ت ت	(Seconds, from 6 to 9, factory deladit 2)
IN2 INPUT MODE	@ C	auxiliary alarm input
(INST)	56	2 gong input
AUXILIARY	55	0 disabled
ALARM (INST)		1 enabled

		ADVANCED PROGRAMMING			
		0 disabled			
		enabled (bypass after 10 s)			
FILTER ACTIVATION	53	2 enabled (bypass after 15 s)			
(INST/OPER)		3 enabled (bypass after 20 s)			
		4 enabled (bypass after 25 s)			
		6 enabled (bypass after 30 s)			
FILTER INPUT NC/NO	48	O normally closed			
(INST/OPER)	9	normally open			
"ACKNOWLED- GE" CODE (INST)	47	XX (from 1 to 3 digits; factory default 5)	[⊞]		
"HANDSFREE ACTIVATION" CODE (INST)	45	XX (from 1 to 3 digits; factory default 0)	[⊞]		
"END" CODE (INST)	43	XX (from 1 to 3 digits; factory default 9)	[⊞]		
"EXCLUSION" CODE (INST)	44	XX (from 1 to 3 digits; factory default 1)	[⊞]		
HANDSFREE CONNECTION TIME UPON ALARM (INST)	46	(minutes, from 2 to 9)			
PULSE/DTMF DIALLING	6 1	O pulse			
(INST)		1 DTMF			
NUMBER OF CALLS TO THE SAME NUMBER FOR EACH CYCLE (INST)	60	(calls, from 1 to 9)			
CALL CYCLES FOR TECHNOLOGICAL ALARMS AND TEST CALLS (INST)	62	\boxed{X} (cycles, from 0 to 9;0 = 10 cycles; factory default	3)		

		ADVANCED	PROGRAMM	IING
CALL CYCLES FOR EMERGENCY CALLS (INST)	69	\overline{X} (cycles, from 0 to 9; 0 = unlimited)		
AUTOMATIC ANSWER (INST)	64	(ring num	nber from 0 to 9 efault 1)	; 0 = disabled;
CONNECTION TIME AFTER AUTOMATIC ANSWER (INST)	65	(minutes, from 1 to 9)		
OFFSET FLOOR MESSAGES (INST)	40	(offset, fr	om 0 to 9)	
RELAY SETTINGS (with optional	7 (5)	1 RELAY 1		avior as output AI avior as output AR mains failure
board) (INST)	75	2 RELAY 2	progresses	ong as the emergency alarm
RELAY INTERMITTENCE (INST)	30	relay 1: steady-state / relay 2: steady-state relay 1: intermittent / relay 2: steady-state relay 1: steady-state / relay 2 intermittent relay 1: intermittent / relay 2: intermittent		
DTMF GENERATOR SETTINGS WITH GSM200-C (INST)	83	DTMF generated by mobile network DTMF generated by ST56 (DTMF duration = X * 50ms)		
READING GSM200-C SIGNAL LEVEL (INST)	244 Lis	14 Listened or read digits 0-12 13-18 19-24 >24		Quality No signal Low signal Medium signal High signal

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 that programming has been completed will be sent back by the ST56 to the same telephone number that forwarded the programming SMS.

WARNING

Programming outgoing SMS from the Internet may not be successful if the requested format is not respected.

Programming message format

Each programming SMS must contain the password, allowing to access programming, and the codes corresponding to the desired settings.

The message format is required to be as follows: ET-HL3 *xxx# n...n n...n

Where:

ET-HL3: programming string start

*xxx#: password string (default xxx = 0)

n...n: programming code (e.g. to enable battery check: 521).

To set more than one parameter, enter the related codes in a sequence separated by a space, make sure you do not overcome the max number of characters allowed by a single SMS (160 characters).

Notification message format

SMS settings are acknowledged with return SMS generated by the ST56 saying which parameter is set. The acknowledge SMS is returned as soon as the setting SMS is received.

The message format is required to be as follows: IP DTv DTv DTv OP

Where:

IP: programming access acknowledge (In Prog)

DTv: : string setting acknowledge (v = setting)

OP: programming exit acknowledge (Out Prog).

In case a telephone number has been programmed, the string setting will have the following format:DTaNbNy...y Where:

a: source

b: receiver

y...y: telephone number

In case a wrong setting has been entered, the acknowledge string ER will be returned.

In case the password is wrong , you will receive the acknowledge string RL ER followed by as many ER as the sent codes are.

Remark: settings may be displayed fully or partially in the acknowledge SMS returned after programming, depending on the characteristics of the SMS recipient devices.

Examples

Desired settings:

date: Thursday 04/02/16

• hour: 21.15

· automatic test call: enabled

Programming message:

ET-HL3 *0# 364040216 352115 341

Notification message:

Desired settings:

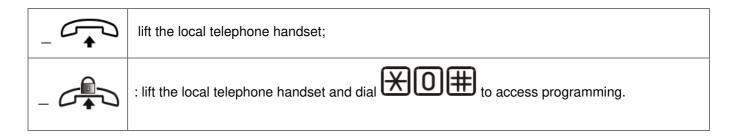
- phone number 0717506066 in the first location associated with Emergencycall (source) under User mode (receiver)
- phone number 0717506105 in the second location associated with Automatic test call (source) under Esse-ti protocol mode (recipient)

Programming message: ET-HL3 *0# 2101120717506066# 2102330717506105#

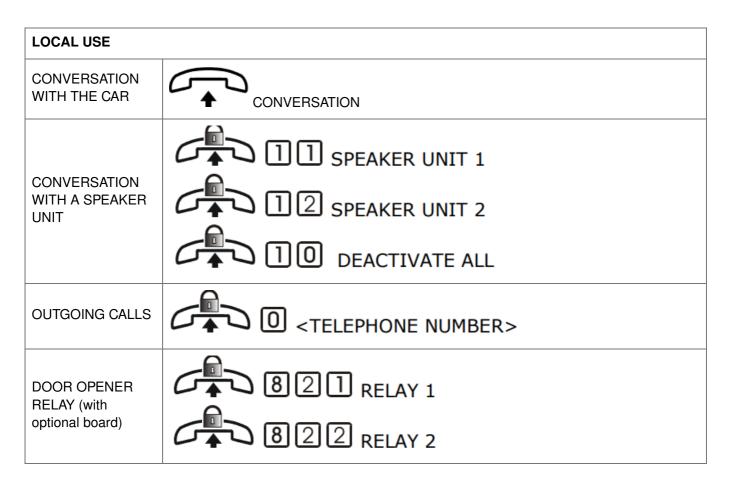
Notification message: IP DT1N2N0717506066 DT3N3N0717506105 OP

USE

In the tables below:



Local



Remote use with ST56 in stand-by

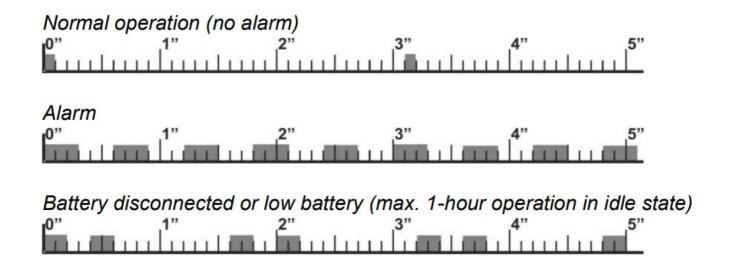
- Besides the programming, the following services are available:

Call the ST56 and wait for the answer.

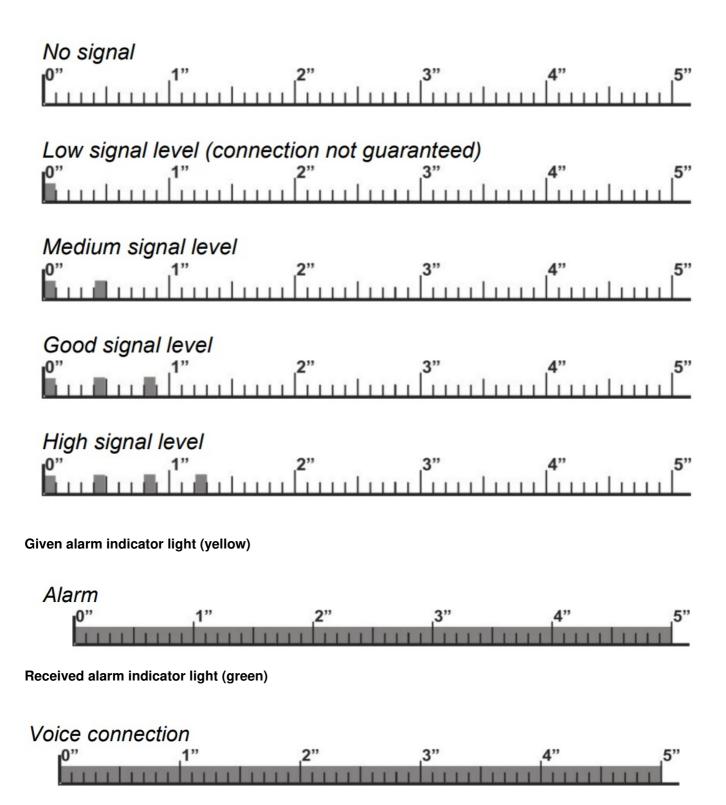
REMOTE USE WITH ST56 IN STAND-BY			
CONVERSATION WITH A SPEAKER UNIT	SPEAKER UNIT 1 SPEAKER UNIT 2 DEACTIVATE ALL		
DOOR OPENER RELAY (with optional board)	821 _{RELAY 1} 822 _{RELAY 2}		

SIGNALS

Device status LED



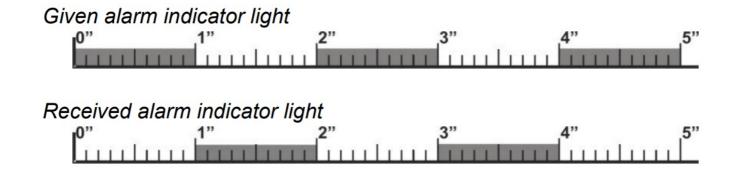
LED signalling GSM200-C signal strength



Missed test call notification

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.



EU DECLARATION OF CONFORMITY

Hereby, Esse-ti S.r.l. declares that the equipment type ST56 is in compliance with Directives 2014/30/EU - 2014/33/EU - 2014/35/EU.

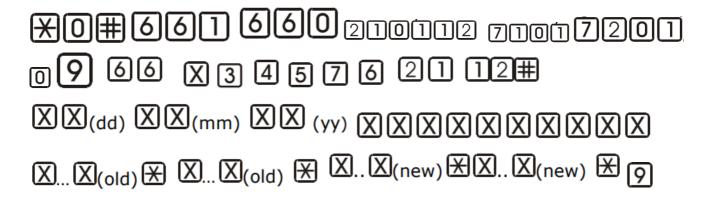
The full text of the EU declaration of conformity is available from the following Internet address: https://www.esse-ti.it/dichiarazioni-di-conformita

NOTE----

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Documents / Resources



esse-ti ST56 INTL Alarm System For Elevators Compliant [pdf] User Guide ST56 INTL Alarm System For Elevators Compliant, ST56 INTL, Alarm System For Elevators Compliant, Elevators Compliant, Compliant

References

- Esse-ti L'eccellenza del "Made in Italy" al servizio della comunicazione
- © Dichiarazioni di Conformità Esse-ti
- Manuals Esse-ti

Manuals+,