



micro TSA 4.0

Emergency Phone System
For Analog Line (POTS)
Or GSM gateway

Instruction Manual

SW 1.1

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THANKS TO CHOOSE
A TELEDIF ITALIA PRODUCT

To obtain the maximum performance and to use the features and functions of the micro TSA 4.0 in the best way, read this manual carefully and keep it handy for any consultation.

Micro TSA 4.0 system is specifically designed to help, someone eventually locked in a cabin lift, to raise an alarm to a service center.

Micro TSA 4.0 responds to the rules: Directive 95/16/EC, EN 81-28, EN 81-70, EN81-72, CTR 21; EN 50082, EN 627 EN 50081-1:1991, EN55022, IEC EN139-4/A2: 2003, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-6, EN61000-4 -8.

- Bi-directional (talk / listen)
- Self-diagnosis. The main features are verified locally and remotely
- Audio level programmable locally or remotely
- Communication protocol to works with any call center via DTMF or Ademco Contact ID
- 2 Independent dial systems and communication: Cabin and Technician call
- 2-way communication from local phone and cabin
- 1 input for 3 working mode:
 - Main alarm filter
 - Gong signal
 - Technical alarm, with management of start and end of alarm
- Warning message on/off
- Calming message recordable by user
- Location message
- Messages identifying the type of alarm or warning and its origin
- System information messages
- Test call automatic and on request, programmable on days of calls
- Low battery alarm, by programming the threshold level and duration of the test
- Programmable alarms to be managed by: voice call, or CLI
- Communication mode with call center
- DC output for “alarm sent” and “alarm received” report
- local and remote programming and verification, with the support of a in line vocal guide
- 10 telephone numbers associated with various types of alarm calls

TECHNICAL SPECIFICATIONS

Power supply:	1	2 Vdc
Max power consumption @ 12Vcc (RMS):		±150 mA
Min power consumption @ 12Vcc (RMS):		± 70 mA
Open collector outputs:		to GND with max 0,5A current @ 12Vdc
Output voltage:		12Vdc not stabilized
Box size with connectors:		79 (L) x 195 (H) x 135 (P) mm
Connectors:		Extractables
Weight:		± 70 g
Working temperature:		From +1°C To +40°C
Storage temperature:		From -20°C To +40°C
Operating and storage humidity:		From 20% To 80%

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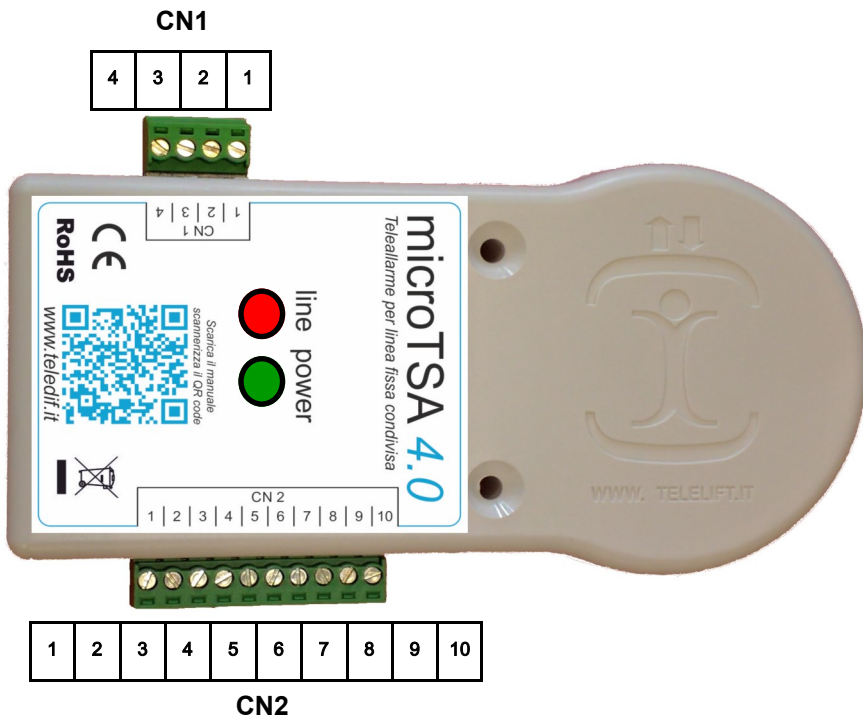
QUICK START

To quickly install the MICRO TSA 4.0 and use its services do the following basic steps:

1. Open the plastic shell of MICRO TSA 4.0
2. Connect the telephone line to plug CN_TEL1 (two central contacts)
3. Connect the handset of the telephone (CN6 1:3)
4. Connect the alarm call button (CN3 1-2)
5. Connect the elevator car speakerphone (from-1 to CN5 CN5-4)
6. Feed the power supply to MICRO TSA 4.0, 12Vcc/500mA (CN1 1-2), matching the polarity.
7. Configure the MICRO TSA 4.0 from a local touch tone phone, program at least one emergency number (parameter "81" on page 15, or parameter 99 on page21)
8. Hang up the phone and wait for the red light stops flashing. If it begin to flash rapidly (like the green led) pick up the handset intercom to hear the error message and refer to "C.4"
9. The system is ready to run when the green LED flashes rapidly and the red is off.
10. Break the appropriate notches for wires in the plastic cover.
11. Close the plastic shell of the MICRO TSA 4.0.

Note: Install the MICRO TSA 4.0 at least 2 meters away from possible sources of electromagnetic noise, always use new and specific cables (for hands-free intercom and phone, phone to phone line).

Link map



LV Green led (power)
 LR Red led (line busy and test)

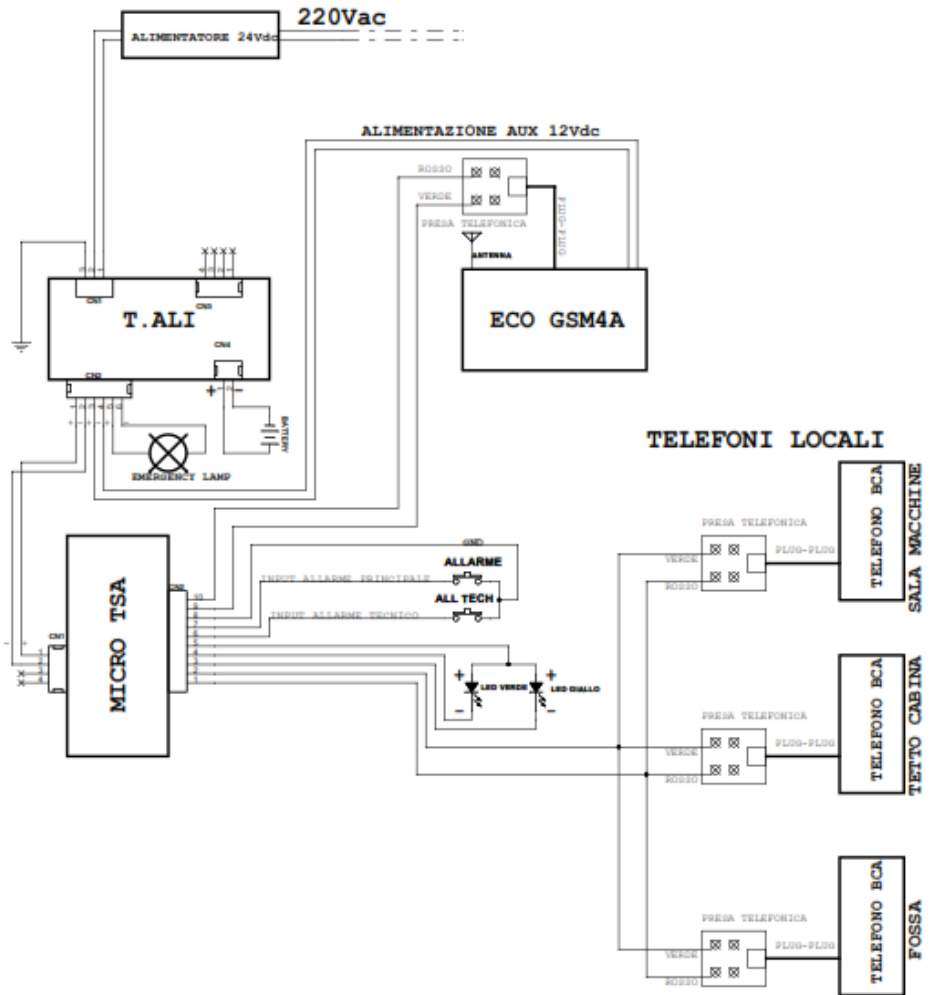
CN1

1	+ Pwr
2	- Pwr
3	+ 485
4	- 485

CN2

1	Local Phone A
2	Local Phone B
3	Alarm sent
4	Alarm received
5	12 Vcc not regulated not stabilized
6	Technical Alarm
7	Main Alarm
8	GND
9	Phone Line A
10	Phone Line B

Installation kit sample



Sample of a typical complete installation of micro TSA 4.0 with power supply ups T.ALI, and connected to a gateway Echo GSM4

C) OPERATION

The micro TSA 4.0 system has 4 system conditions:

1. SELF-TEST
2. OPERATING
3. PROGRAMMING
4. ERROR (WARNING)

C.1) SELF-TEST

The condition of self-test is signaled by a slow flashing LED LINE (red).

When switched on, the micro TSA 4.0 automatically starts the self-test procedure to check the minimum conditions for proper operation, such as:

1. The programming of at least one of the 5 numbers for the main alarm
2. The suitability of the supply voltage
3. The presence of the telephone line

The self-test procedure is performed whenever any of the following conditions:

- Turn on of the system
- Hanging up the phone after a cancellation or programming of telephone numbers for main alarm
- After an automatic or manual system reset

At the end of the self test, the red LED off indicates that the system is working correctly, the red LED flashes quickly to indicate an error condition (see section C.4).

The system sends a test call (if the phone number is programmed) after the time defined in parameters 42 and 43. (see section C.2.3.5).

Any error is reported also on alarm sent signal (pin 3 of connector CN2).

C.2) OPERATING

C.2.1) Events and priorities

The MICRO TSA 4.0 handles events and alarm signals in order of priority

1. ACCESS FROM LOCAL AND REMOTE PHONE, AFTER THE CHAR * PRESSED
2. MAIN ALARM (CAB) AND MAINTAINER ALARM
3. BATTERY ALARM
4. TECHNICAL ALARM
5. END OF ALARM (MAIN AND TECHNICAL)
6. ROUTINE CALL (TEST CALL)

The micro TSA 4.0 system always runs the first 2 events with higher priority (Event 1 has higher priority than 2, etc.).

If a higher priority came during an event, the micro TSA 4.0 suspend the procedure in progress to handle the new event and after handling the event will resume the event suspended.

C.2.1.1) Intercom

MICRO TSA 4.0 can connect multiple internal phones in parallel to the intercom system

From internal phones, you can:

- Initiate End alarm procedure, if programmed

- **C.2.1.2) Main alarm (cabin)**

An alarm call is forwarded keeping pressed the alarm button for the programmed time. The system provides a warning message and then starts the regular procedure for processing the alarm, playing the calming message in the cab.

The called party receives the location message of the installation and, pressing the digit 5, enter in communication with the cabin.

From the keyboard of the phone that receive the alarm, you can activate all the functions required by system programming.

The alarm call is considered successful only when the operator answers and press digit "5" to enter in communication with the cabin.

The numbers programmed for alarm calls are 5, the system selects them in a loop until it receives a valid response or completion of programmed cycles.

At the beginning of each new cycle, the system plays the calming message in the cabin.

C.2.1.3) Maintainer Alarm

You can start an alarm call, pressing digit 3 from local phone. The maintainer can stop the call pressing digit 5 after the dialing of the call.

C.2.1.5) Battery alarm (low)

MICRO TSA 4.0 generates an alarm call whenever the battery voltage across the terminals of the power supply drops below the programmed value, for the programmed time.

The battery alarm is indicated in the following ways:

- A call to the number programmed with the message for identification and type of alarm
- A call to the number programmed in CLI mode (see Section C.3.9 gives)

C.2.1.7) End of alarm

The MICRO TSA 4.0 system , after a main alarm, can handle a *End of alarm* procedure or Notification of Alarm acceptance in three different ways

1. **From remote:**
After an alarm call, call the phone number of the micro TSA 4.0, which generated the alarm and dial "0" after the asterisk and any password es. * 1234 0
2. **From local:**
Lifting and hanging up the handset of the intercom.
3. **Automatic:**
The acceptance of a call (typing key 5) triggers an automatic notification call to the programmed number

The End of alarm procedure, if programmed, performs the following functions:

- Turn off the alarm sent signal
- Start a call to the programmed number, in voice mode or CLI.

C.2.1.8) Routine (test) call

The system has two ways of management of remote diagnosis

- On demand:
- Periodically, programmed at intervals of days.

A test call is executed in the following ways:

- Call to programmed number with delivery of location messages.
- Call to programmed number in CLI mode (see Section C.3.9 gives).

Activate a call back test :

1. Dial the phone number of the MICRO TSA 4.0
2. The system answer with message identification, press asterisk (*) digit, then the password followed by the key 6.
3. Hang up
4. The system initiates a "on request test call" in the programmed mode.

C.2.1.9) Incoming call

MICRO TSA 4.0 answer to an incoming call, after the programmed number of rings, with the location message.

To access to the system, type:

1. Asterisk (*)
2. The system responds with the message "enter password" or "insert code"
3. Type the password or, if not programmed, enter the code for the command or procedure you want to activate
4. The system responds with the message "password correct" or "password incorrect", "correct code" or "wrong code" or with the corresponding function message
5. Typing 5 opens the voice channel with the hands-free of the cabin (cabin, for proper management of privacy is also provided with a "beep", at regular intervals)
6. To close the connection type "9" or hang up.

If you do not enter the key * (asterisk) within the time set with parameter "05", the system emits a sound signal indicating that the timeout is about to expire and then releases after 10 seconds.

In the case of the occurrence of an event with higher priority than the incoming call, this is closed and the system will initiate the procedure for a new event triggered.

NOTE: If the MICRO TSA 4.0 is connected to a gateway GSM instead of an analog phone line or internal control unit, it is possible to have difficulty recognizing dtmf tones, especially in the presence of a weak signal, in which case, during the connections from remotely, you should select the codes and control program with some caution:

1. When not playing the system messages
2. Waiting at least a second between typing a digit other

C.2.1.10) Answer to an alarm call generated by the MICRO TSA 4.0

When the operator of the help desk answers the call, receives the location message followed by the type of alarm and the instructions to accept the call and enable communication with the cabin.

The messages are repeated until the confirmo of the operator pressing digit "5" on the phone keyboard.

The digit 5 as well as activate the voice communication and starts the timeout programmed, depending of programming, switches on the "alarm received" signal, for the configured time(Section C.3.7 parameter "72").

The approaching the end of time out (10 seconds from the end) is reported by a short message or tone. Enter any DTMF digit to re-charge the time out.

While connected, you can access to "remote controls" (Section C.2.2) using the relevant "control codes".

Communication is closed and the MICRO TSA 4.0 returns to rest in the following cases:

- typing and recognition of the digit "9"
- acknowledgement of the busy signal generated from the telephone line
- at the end of "communication timeout"

C.2.2) System access and remote control codes

CONTROL CODES		
Function	Code	MICRO TSA 4.0 Action
End of alarm	0	Starts the END OF ALARM procedure
Output 1	1	Control the Open Collector Output n.1 if not programmed otherwise . (see Section C.3.7parameter 70)
Output 2	2	Control the Open Collector Output n.2 if not programmed otherwise. (see Section C.3.7parameter 71)
ID request (identity code)	4	Send in line with DTMF tones the ID number programmed in sez. C3.1 param. 04, and the code of type of call (sez. C.3.1 param. 11)
Communication	5	a. Connect audio in the cabin b. Consider the call succesfull c. Reload the conversation time
TEST CALL request	6	Start the auto test call back
Listen to the LOCATION MESSAGE	7	Plays the location message for the call in progress.
a. Close the conversation b. Hang up the call	9	Close the communication
Enter in program mode	#	Wait for the programming or reading code

C.3) PROGRAMMING

The program allows you to read and write the parameters of the system with the following syntax:

To write:

CODE OF WRITING (11) + PARAMETER + ASTERISK (*) + VALUE + ASTERISK (*)

To read:

CODE OF READING (12) + PARAMETER

CODICI PER LA PROGRAMMAZIONE		
FUNZIONE	CODICE	AZIONI DEL MICRO TSA 4.0
Enter in program mode	#	Wait write or read code
Exit program mode		Wait control code or hang up
WRITE code	11	Write a value to the parameter
READ code	12	Read the value of the parameter

How to program:

- From a remote telephone enter to the system (call the MICRO TSA 4.0, and after listening to the location message, press digit asterisk (*);
- Wait for the prompt "*enter the password*"
- Enter the password (if PW disabled would be skipped here)
- Wait for the message "*correct password*"
- Enter the digit # (pound)
- Wait for the message "*enter programming mode*"
- Insert the programming code with its parameters according to the syntax described above

For each correct syntax, the system returns the message: "*correct code*"

For each incorrect syntax, not recognized or not possible, the system returns the message: "*wrong code*"

To exit from program mode, hang up the phone or press digit # (pound)

The system plays the message: "*exit program mode*"

Example 1:

*** 1234 # 11 02 * 5 ***

Where "*" allows you to access the system, "1234" is the password, "#" allows access to programming mode, "11" writing code, "02" parameter concerned, "*" beginning of the value, "5" is the new value of the parameter, "*" end of the value of the parameter.

After joining the programming mode, you can read or write all the parameters in sequence, without having to hang up and/or exit.

Example:

* 1234 # 11 02 * 5 * 11 20 * 3 * 11 41 * 01 * ... and so on ...

During programming, there is a timeout of 60 seconds of waiting key strokes.

After this time micro TSA 4.0 plays the message: "Timeout expired" and exits from program mode.

C.3.1) SYSTEM SETTINGS

SYSTEM PARAMETERS					
PARAMETER	VALUE	Default	Yours Values	FUNCTION	NOTES
00	00	-	-	Reset program settings	Reset all parameters to default values (don't delete messages)
01	0000 - 9999	1234		Password	0000 = password disabled
02	1 - 9	1		Rings	N° of rings to answer to incoming calls
04	000000 - 999999	000000		Identity code of the system installed	For Ademco Contact ID protocol, are considered only the last 4 digits
05	01 - 99	02		Communication Timeout	In Minutes. Time of the communication between handsfree and called phone.
06	010 - 999	060		waiting confirmation	In Seconds. Time waiting between starting of dialing and confirmation digit (5)
07	-	-	-	Software version	Example: 10 is software version 1.0
08	Da 0 a 9	5		Speaker Voume	0 = mute 9 = max
09	Da 0 a 9	5		Speaker Voume	0 = mute 9 = max
11	1 - 3	1		How to manage codes to identify the type of call	1 = DTMF mode 3 = ADEMCO C.ID see section "C.3.11"
12	Only Read	-	-	Voltage supply	in tenths of VOLT (+/- 0,1V) Example: 125 = 12,5 Vcc
13 (*)	1 - 9	5		Amplitude DTMF tone	1 = Amplitude min 9 = Amplitude max
14 (*)	0 - 9	2 (100ms)		Duration DTMF tone	Step by 20msec: 0 = 60msec 9 = 240msec
15 (*)	0 - 9			DTMF interdigit pause	
16	1 - 9	2		Time waiting before dialing.	In seconds
17 (*)	0 - 4	2		Amplitude of the differential frequency of the DTMF tone	in dB
18	1 - 9	5		Sensitivity of recognition of busy tone	1 = Max sensibility: faster in recognizing the busy tone
19	0 or 1	1		Check presence of telephone line	0 = No 1 = Si
28	05 - 90	10		Ring duration setting	In tenths of msec. 10 = 100 msec.
75	0 / 1	0		Playback dial tone in cabin during alarm	0 = No 1 = Si

*: You should change the parameter marked only by indications of the Teledif Technician.

C.3.2) MAIN ALARM - END OF ALARM

MAIN ALARM					
Parameter	Value	De-fault	Your Value	Function	Notes
81	Max 20 digits	-	-	1° telephone number (*)	Voice or Ademco call
82		-	-	2° telephone number (*)	Voice or Ademco call
83		-	-	3° telephone number (*)	Voice call
84		-	-	4° telephone number (*)	Voice call
85		-	-	5° telephone number (*)	Voice or Caller ID call (par. 29)
20	0-9	2		N° loops of calls	0 = Infinite
21	0 or 2-9	2		Minimum time to press the main alarm	In seconds 0 = start immediately without warning message
23	1 / 2	1		Contact working	1 = NO (Normally Open) 2 = NC (Normally Closed)
24	0 / 1	1		Play "warning message" enable	0 = Disabled 1 = Enabled (Irrelevant with par. 21 = 0)
Fixed		5	-	Time between 2 failed calls	In seconds
		30	-	Time between the end of a loop and the next one	
END OF ALARM					
80	Max 20 digits	-	-	Telephone number (*)	
25	0 - 9	2		N° loops for end of alarm calls	0 = infinite
26	1 - 3	1		How to manage the end of alarm or alert notifications of acceptance	1 = Start "end of alarm" only with the intercom handset 2 = Start "end of alarm" also from remote phone (external call) 3 = Automatic "end of alarm" after the confirm of call pressing digit 5
27	0 / 1	0		Ways of alert	0 = Voice call 1 = Call in CLI mode (see section C.3.9)
Fixed		3	-	Time between 2 failed calls	In Minutes

(*) To erase a stored number, just program an empty value - es: 11 82 **

C.3.3) MESSAGES

The system provides 2 types of messages:

System messages: they are fixed and can not be changed by the user.

User-recordable messages: they are 6 and are associated with specific functions.

For optimal management of the system the length of the messages must be calculated in advance and programmed before each recording.

To record a message, follow the instruction below:

1. Select the number of MICRO TSA 4.0 and at the answer type * key (asterisk)
2. Enter any password
3. Enter the character # (pound) key to enter programming
4. Enter the code of the message you want to register as follows:
5. 11 30 * 08 * where:
 - 11 write access parameters
 - 30 Code of the message you want to register (for example, "Location")
 - * Start value
 - 08 estimated duration of the message of 8 seconds
 - * End of value
6. The system reply with the message: "Record after the tonebeep"
7. Speak clearly into the microphone of the handset
8. After the programmed time, the system will reply: "Message recorded"
9. To listen to the message, type 12 followed by the code of the recorded message. Example 12 30 play the Location message.
10. If you are not satisfied with the result, repeat the procedure from step 4.

NOTE: In case of noisy or bad quality recording, power the MICRO TSA 4.0 from a battery or a good efficient power supply and use a good quality.

PAR.	VALUE	DEFAULT	MESSAGE	NOTE
30	00 or 02 - 20	00 = Parameter not programmed	02 - 20 = Identification message	Value from 02 to ... = duration of the message in seconds
31	02 - 20	Please, stay calm Your request for assistance has been directed to the permanent call center. You 're shortly been connected to an operator	Calming message in cabin	
35	02 - 15	Person entrapped in the cabin.	Main Allarm to the phone line	

Message	Presentation	Location	Motive	Instruction
Type of message	System (not recordable)	User (recordable)	User (recordable only for main alarm) System (test, battery, end of alarm, ecc)	System (not recordable)
Example 1: Message provided	<i>Micr TSA system (followed by the digits of the code configured in par. 04)</i>	<i>Elevator n° 5, at 32 in London Bridge Street</i>	<i>Person entrapped in the cabin</i>	<i>Press 5 to enter in communication.....</i>

C.3.4) TEST CALL

Routine call (test)					
PARAMETRO	VALORE	De- fault	Vs Valori	FUNZIONE	NOTE
88	Max 20 digits	-	-	Telephone number	
40	0 - 9	2		N° loops	0 = Infinite
41	01 - 99	03		Time between 2 calls	In days
42	00 - 23	00		Waiting time for the next call (HH + MM)	In Hours
43	00 - 59	10		Waiting time for the next call (HH + MM)	In Minutes
44	0 / 1	0		Calling mode	0 = Voice call 1 = CLI call (see sect. C.3.9)
Fixed		3	-	Time between a failed call and the next one	Minutes.

ALLARME BATTERIA					
PARAMETRO	VALORE	De- fault	Vs Valori	FUNZIONE	NOTE
89	Max 20 digits	-	-	Telephone number	
50	from 0 to 9	2		N° loops	0 = infinite
51	from 100 to 150	110		Intervention threshold voltage	In tenths of VOLT (+/- 0,1V) Example: 105 = 10,5 Vcc
52	from 00 to 99	01		Intervention threshold monitoring time	In minutes
53	from 01 to 99	01		Time between two calls. with persistent alarm	In hours
54	from 0 to 1	0		Ways of alert	0 = Vocal call 1 = Call in CLI mode (see section C.3.9)
Fixed	Fixed	3	-	Time between 2 failed calls	In Minutes

C.3.5) - BATTERY ALARM

C.3.7) OPEN COLLECTOR OUTPUT

RELAYS					
PARA-METER	VALUE	De-fault	Yr Values	FUNCTION	NOTES
70	0 - 9	7		PIN3 CN2 OUTPUT (alarm sent)	<p>0-5 used for "Telecontrol"</p> <p>0 = GND output while DTMF presence</p> <p>1 - 4 = GND output from 1 to 4 seconds</p> <p>5 = Connected to GND in latched mode: each pression of digit 1 change the state of the output</p> <p>6 - 9 used for "Alarm sent":</p> <p>6 = Activated to GND until the management of "End of Alarm"</p> <p>7 = Activated to GND until confirmation of the call by pressing digit 5</p> <p>8 = Activated intermittently until management of the "End of Alarm"</p> <p>9 = Activated intermittently until confirmation of the call by digit 5</p>
71	0 - 6	6		PIN3 CN2 OUTPUT (alarm received)	<p>0-5 used for "Telecontrol"</p> <p>0 = GND output while DTMF presence</p> <p>1 - 4 = GND output from 1 to 4 seconds</p> <p>5 = Connected to GND in latched mode: each pression of digit 2 change the state of the output</p> <p>6 used for "Alarm sent":</p> <p>6 = Activated to GND for the time programmed in parameter 72, starting from attestation of the call by pressing digit 5 .</p>
72	001 - 999	010		Timeout output 2	<p>In Seconds.</p> <p>Activation time of the output 2, if programmed parameter 71=6</p>

Note: Reading parameters 70 and 71, besides being played the value of the parameter, is also provided the state of the relay (On or Off).

C.3.7.1) "Alarm sent" and "Alarm received"

The two reports output of the MICRO TSA 4.0 system, properly programmed, can better manage light signals and / or Sound for Alarm Received and Sent.

Alarm Sent

When you start a main alarm procedure, the output 1, if programmed, activates the signal "alarm sent"

The alert remains active until acknowledged or to receive alarms or to the management of the End of alarm.

Alarm Received

With the output 2, suitably programmed, you can manage the received alarm signal, remaining active from the confirm of the alarm call (key 5), to the end of programmed time.

C.3.8) TELEPHONE NUMBERS

The system MICRO TSA 4.0 maintains an address book of 8 telephone numbers (parameters from '80 to 91) and each one can be associated with a specific event or alarm signaling. The alarm has 5 main numbers that are dialed in cyclic mode until it receives confirmation code (digit 5 by an operator) or until the end of the programmed cycles.

To make easy the programming of telephone numbers, when all calls are forwarded to a single number, you can use the parameter 99.

To delete a number from the phone book simply set a schedule with its parameter, empty.

To change a programmed number just overwrite it.

RUBRICA TELEFONICA				
PAR.	VAL.	FUNZIONE	VOSTRO NUMERO	
80	Max 20 cifre	End of alarm (*)		
81		1° tel n° main alarm and maintainers(*)		
82		2° tel n° main alarm and maintainers		
83		3° tel n° main alarm and maintainers		
84		4° tel n° main alarm and maintainers		
85		5° tel n° main alarm and maintainers		
88			Test call (*)	
89			Battery alarm (*)	
99		With this program you can set or delete all phonebook entries, marked with an asterisk (*), with a single programming		

C.3.9) CLI CALLS

The system performs the alarm with CLI mode, to the following steps:

- call the phone number programmed and, if it is free after 2 rings (about 10 seconds) disconnect.
- if the number dialed is busy, the system retries the selection every 3 minutes until it will be free, however at most, the number of cycles set for the type of alarm.

C.3.10) COMMUNICATION CODES

The system MICRO TSA 4.0 communicate with a call center via DTMF or "Ademco Contact ID" protocol.

To select the protocol program the parameter 11 (see Section C.3.1).

Example: to select the mode 2, program 11 11 * 2 *

Type of call	CODICE TONI DTMF				
	MODO 1		MODO 3 ADEMCO		
			Event	Group	Zone
Main Alarm	*01		140	00	001
Battery alarm	*07		302	00	000
End of alarm	*20		300	00	000
Routine call (test)	*05		602	00	000
Inbound call	*31		000	00	000

Note: in Ademco mode, is still possible to answer in voice mode and listening to the message location with the digit 7, and then, enter in conversation with the cab with the digit 5, and close with the digit 9.

C.4) ERRORS

In the error condition, indicated by the quick flashing of the red LED on board and the output 1, if you enter into communication with MICRO TSA 4.0 from a remote phone, you can hear the error message.

The errors found are:

- missing of a number stored for the alarm (parameters 81 to 85)
- Supply voltage below 10 VDC
- Telephone line not detected: PSTN, extension of PBX or GSM gateways, the check of the line is a programmable function.

During the error condition, except of course for the absence of the line, you can access remotely to the system to read and write the configuration.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
The system sometimes doesn't answer and/or frequently reset itself	There are strong electromagnetic pulses caused by power equipment that disturbs the MICRO TSA 4.0.	For proper operation it is advisable to install the MICRO TSA 4.0 at least 2 meters from any source of electromagnetic disturbances: switchgear, motors, power relays, inverters, etc.. and use for links, new cables and dedicated.
The system is on but does not handle the alarms. The red LED flashes quickly (like the green led).	The system is in ERROR.	See indication section C.4
He has difficulty in properly receive DTMFremote.	Disturbed or low audio signal	Don't enter the DTMF tones system is playing audio messages and wait at least a second between digits. Call the MICRO TSA 4.0 from a site with low ambient noise. Check for proper power supply. If the MICRO TSA 4.0 is connected to a GSM gateway instead of the analog trunk, make sure that the GSM signal is good and possibly move the GSM device in a place that guarantees a good signal, make sure that the antenna and the GSM device is at least 1 meter away from the MICRO TSA 4.0.
Opening the hands-free communication between the cabin and the intercom handset, you hear a "whistle".	Handsfree volume too loud	Lower the volume of the speaker and adjust optimally. Check the correspondence of the microphone hole on the panel.
The recording quality is not good messages customizable (you can hear a buzz).	Power supply not suitable or noise on telephone line.	Use a good quality power supply. If you are using a GSM gateway, make sure the MICRO TSA 4.0 is at a distance of at least 1 meter from the antenna.

DISPOSAL

This product is not within normal MSW (Municipal Solid Waste) as it is composed primarily of electronic components. The symbol of the bin with wheels marked with a cross indicates that the disposal must be made through approved facilities in accordance with DL 151 of July 25, 2005. One of improper disposal of the equipment or parts thereof, may cause harmful effects to human health and the environment.



Prior to disposal, remove any batteries and dispose of separately in accordance with Legislative

ROHS

The electronic circuit of this product is designed and manufactured in accordance with the provisions of legislation 2002/CE (RoHS)



COMPLIANCE

Teledif Italia declares that the device meets the directives by the Council in respect of EMC Directive 2004/108/EC and electrical safety equipment for low voltage Directive 2006/95/EC and its subsequent changes. The conformity of the product is expressed by the "CE".



PRECAUTIONS FOR USE

Before attempting any cleaning or maintenance, disconnect the unit from the mains and any other connection.

Do not put in contact with liquid and do not use aerosol sprays or solvents for cleaning.

Use and / or store the product under conditions of temperature and humidity ranges (see p. 2)..

Food product with the supply voltages listed in this manual.

For any repairs, contact your dealer or service center Teledif Italia.

WARRANTY

Teledif Italia warrants this product free from manufacturing defects for 2 (two) years from date of purchase.

The date of purchase will result from the receipt or invoice.

During the warranty period the equipment will be replaced or repaired free in the laboratories of Teledif Italia in Turin.

The cost of transport to and from the laboratory Teledif Italia is always charged to the customer.

The equipment to be repaired under warranty must be submitted to Teledif Italia in its original packaging and always accompanied by a copy of the purchase.

Failure to follow the instructions for use, the use of power other than that indicated, the assembly of non-original parts, repairs by unauthorized third parties, altering or removing the serial number and any tampering, void the warranty.

Nothing will be due to the buyer for inactivity time unit, or he may claim damages or compensation of expenses for any direct or indirect arising from use of this.

For every problem it is advisable to contact the installer or prior to the store where you purchased the unit.

Any dispute will be brought before the courts of Turin.

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