G2+

TECHNOLOGY

USER MANUAL

T-520 LITE/G2+ TELEPHONE

golmar

INTRODUCTION

First of all, we thank and congratulate you for purchasing this product.

Our commitment to achieving the satisfaction of customers like you is manifested through our ISO-9001 certification and the manufacture of products like the one you have just purchased.

Its advanced technology and strict quality control will ensure that customers and users enjoy the numerous features that this device offers. To get the most out of them and ensure proper operation from day one, we recommend that you read this instruction manual.
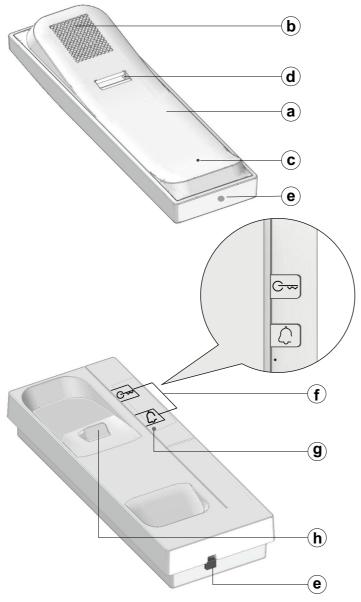
CONTENTS

SAFETY PRECAUTIONS

- **Always disconnect the power supply** before making modifications to the device.

- The fitting and handling of these devices must be carried out by **authorised personnel**.

- The wiring must run at least **40cm away from any other wiring**.

- Do not overtighten the screws on the connector.

- Install the T-520 LITE/G2+ telephone in a dry protected location free from the risk of dripping or splashing water.

- Do not place in humid, dusty or smoky locations, or near sources of heat.

- Before connecting the device to the mains, check the connections between the door panel, power supply & T-520 LITE/G2+ telephones.

- Use Golmar cable **RAP-GTWIN/HF** (2x1mm²)

- Always follow the instructions contained in this manual.

CHARACTERISTICS

- T-520 LITE/G2+ telephone with simplified installation (non-polarised 2 wire bus).
- Up to 4 T-520 LITE/G2+ telephones/monitors per apartment (master, slave 1, slave 2 and slave 3).
- Up to 32 apartments/T-520 LITE/G2+ telephones in mixed installations with monitors **(EL632 G2+ SE module)**.
- Up to 128 apartments/T-520 LITE/G2+ telephones per installation **(EL642 G2+ sound module required).**
- Completely private conversation.
- Call reception volume control: min, med, max and off (do not disturb).
- Audio volume control during communication process (4 different levels).
- "HZ" input for calls from apartment front door.
- Output to auxiliary call repeater (maximum 50mA/12Vdc).
- Up to 5 different ringtones to identify the origin of the call (door panel 1, door panel with different address from 1, intercom, guard monitor or front door of the apartment "HZ").
- Button ⌒⌇ for lock release activation 1 / activate- deactivate "Doctor mode"/ call to guard monitor (if exist).
- Button ⌂ volume adjustment, "do not disturb" mode for tone call volume control, / communication call volume control (T-520 LITE/G2+ speaker) / ends the call on the phone that was pressed.
- DIP switches for setting the telephone's address (call code), master/slave and end of line.

SYSTEM OPERATION

- To make a call, the visitor needs to press the button for the apartment, an audible tone indicates that the call is being made and LED ⌂ on the door panel illuminates. If vocal synthesis is enabled, a 'Call is in progress' message appears indicating that a call is being made. At this moment, the apartment's telephone(s) receives the call. If another apartment is called by mistake, press the button for the correct apartment and the first call will be cancelled.
- Upon receiving the call, tones will be heard on the telephone(s) in the apartment. If the call is not answered within 45 seconds, the door panel's LED ⌂ will turn off, and the channel will be freed.
- To establish communication, lift the handset on any telephone in the apartment. Door panel's LED ⌂ will turn off, the led ⧖⁾⁾ will turn on.
- Communication will last for one and a half minutes or until the handset is replaced. When communication has finished, door panel's LED ⧖⁾⁾ will turn off and the channel will be freed. If vocal synthesis is enabled, a 'Communication is finished' message will indicate that the call is over.
- To open the door, **short press button** ⌒⌇ during the call or communication processes: activates the lock release for 3 seconds and LED ⎀ on the door panel will also illuminate for 3 seconds. If vocal synthesis is enabled, a 'Door is open' message will be indicated on the door panel.
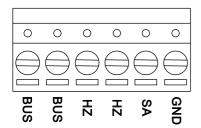- Description of the function buttons can be found on pages 5 & 9.

TELEPHONE DESCRIPTION:

a. Telephone handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Function buttons.
g. Telephone status LED:
   -"Do not disturb" mode.: led will flash slow (red).
   -Call: If Do Not Disturb mode is enabled, the LED flash fast (red).
h. Hook switch.

Label product:

12210121 T-520 LITE/G2+ V01

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UK CA

WARNING TO PREVENT FIRE
OR ELECTRIC SHOCK,
DON'T EXPOSE THIS DEVICE
TO RAIN OR MOISTURE

MADE IN CHINA

CE

Description connection terminals:

BUS, BUS: Communication BUS (non-polarised).
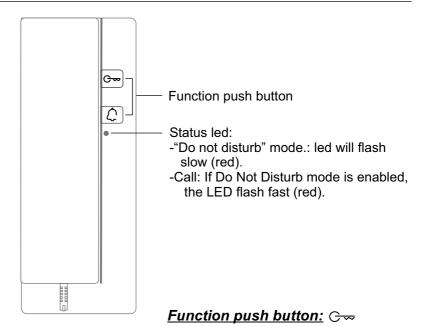
SA, GND: Auxiliary call repeater output (max 50mA/12Vdc), relay SAR-12/24.

HZ, HZ: Apartment front door button input:
   Connect only on the master monitor. The signal received is then transmitted to the slave telephones in the same apartment through the BUS.

BUS BUS HZ HZ SA GND

Note: HZ push button function mode: When HZ push button is pressed will be call tone and activate the output of auxiliary call repeater with standby telephone, call process, communication process (HZ tone with lower audio level), intercom process and "Do not disturb" mode. **Important:** Up to 8 telephones/ apartments with push button "HZ" activated at the same time (with system and telephones in standby).

TELEPHONE DESCRIPTION:

Function push button:

Function push button

Status led:
- "Do not disturb" mode.: led will flash slow (red).
- Call: If Do Not Disturb mode is enabled, the LED flash fast (red).

Function push button: 🔔   *Function push button:* 🔑

🔔 In standby: Handset on hook, a 5 second press activates the "do not disturb mode", the status led will flash slow (red), and will flash fast (red) when a call is in progress. In standby: Handset on hook, a short press ends 'do not disturb mode', the status LED will turn off. In standby: Handset on hook, a short press allows you to listen to the current call tone volume or to end the 'do not disturb mode', each short press switches to the next volume level (min/med/max). During a call: A short press silences the call on the pressed phone and deactivates the 'SA' output. In communication: Each short press adjusts (between 4 levels) the volume of the telephone loudspeaker (see page 9).

🔑 during the call or communication processes: **a short press activates door release**. 1, a long press of 4 seconds also activates door release 1. In standby: Handset on hook, an 8 second press activates 'automatic door release' mode (3 beeps will be heard) or deactivates 'automatic door release' mode (1 beep will be heard), (see page 9). In standby: Handset off hook, Press the button for 3 seconds establishes audio communication with the main door panel (auto-switch On).

In standby: Handset off hook, short press to call 'Guard' monitor (if available), see page 9.

Description of the DIP switch and configuration of the T-520 LITE/G2+ telephone address (code):

Building / Villa (Nexa door panel)

Dip1-Dip7: Sets the telephones address (addresses 1 to 128). **Note:** Mixed installations with monitors (addresses 1 to 32). The switches set to OFF have a zero value. The values of the switches set to ON are shown in the table below. The telephone code is the sum of the values of the switches set to ON.

Important:
Apartment 1 (Dip1 to ON & Dip2-Dip7 to OFF)
Apartment 128 (Dip1-Dip7 to OFF)

Table of values

Switch number:	1	2	3	4	5	6	7
Value when ON:	1	2	4	8	16	32	64

Example: 0 + 0 + 4 + 0 + 16 + 0 + 0 = 20

Dip8-Dip9: These define whether the telephone is master or slave. Each apartment must have only one master telephone.

Master	Slave 1	Slave 2	Slave 3

Dip10: Configures the end of line. In installations with telephones only, it must always be in the OFF position. In mixed installations of monitors with T-520 LITE/G2+ telephones in the same apartment, set to ON for the telephones in which the BUS cable ends and leave in the OFF position for intermediate telephones.
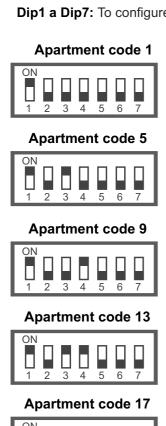
TELEPHONE DESCRIPTION:

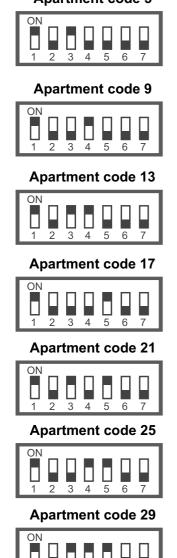Continued from previous page.

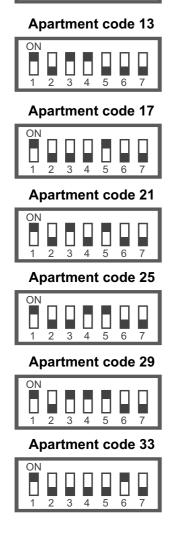### *Configuration of T-520 LITE/G2+ telephone address codes (up to 128 addresses):*
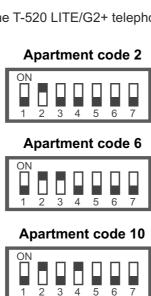
Important:
- Up to 32 apartments/T-520 lite/G2+ telephones in mixed installations with monitors **(EL632 G2+ SE module)**.
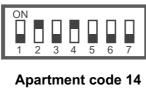- Up to 128 apartments/T-520 lite/G2+ telephones per installation **(EL642 G2+ sound module required).**

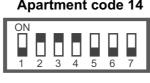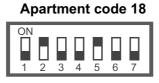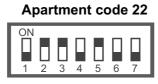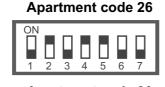**Dip1 a Dip7:** To configure the T-520 LITE/G2+ telephone/apartment address (up to 128 addresses).

Apartment code 1	Apartment code 2	Apartment code 3	Apartment code 4
Apartment code 5	Apartment code 6	Apartment code 7	Apartment code 8
Apartment code 9	Apartment code 10	Apartment code 11	Apartment code 12
Apartment code 13	Apartment code 14	Apartment code 15	Apartment code 16
Apartment code 17	Apartment code 18	Apartment code 19	Apartment code 20
Apartment code 21	Apartment code 22	Apartment code 23	Apartment code 24
Apartment code 25	Apartment code 26	Apartment code 27	Apartment code 28
Apartment code 29	Apartment code 30	Apartment code 31	Apartment code 32
Apartment code 33	Apartment code 34	Apartment code 35	Apartment code 36

TELEPHONE DESCRIPTION:

Continued from previous page.

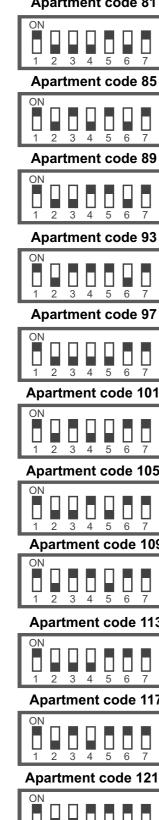| Apartment code 37	Apartment code 38	Apartment code 39	Apartment code 40
Apartment code 41	Apartment code 42	Apartment code 43	Apartment code 44
Apartment code 45	Apartment code 46	Apartment code 47	Apartment code 48
Apartment code 49	Apartment code 50	Apartment code 51	Apartment code 52
Apartment code 53	Apartment code 54	Apartment code 55	Apartment code 56
Apartment code 57	Apartment code 58	Apartment code 59	Apartment code 60
Apartment code 61	Apartment code 62	Apartment code 63	Apartment code 64
Apartment code 65	Apartment code 66	Apartment code 67	Apartment code 68
Apartment code 69	Apartment code 70	Apartment code 71	Apartment code 72
Apartment code 73	Apartment code 74	Apartment code 75	Apartment code 76
Apartment code 77	Apartment code 78	Apartment code 79	Apartment code 80
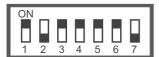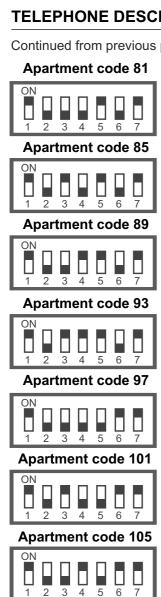
TELEPHONE DESCRIPTION:

Continued from previous page.

Apartment code 81	Apartment code 82	Apartment code 83	Apartment code 84
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 85	Apartment code 86	Apartment code 87	Apartment code 88
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 89	Apartment code 90	Apartment code 91	Apartment code 92
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 93	Apartment code 94	Apartment code 95	Apartment code 96
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 97	Apartment code 98	Apartment code 99	Apartment code 100
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 101	Apartment code 102	Apartment code 103	Apartment code 104
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 105	Apartment code 106	Apartment code 107	Apartment code 108
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 109	Apartment code 110	Apartment code 111	Apartment code 112
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 113	Apartment code 114	Apartment code 115	Apartment code 116
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 117	Apartment code 118	Apartment code 119	Apartment code 120
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 121	Apartment code 122	Apartment code 123	Apartment code 124
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

Apartment code 125	Apartment code 126	Apartment code 127	Apartment code 128
ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7	ON 1 2 3 4 5 6 7

TELEPHONE DESCRIPTION:

Autoswitch-on function:

With the T-520 LITE/G2+ telephone in standby mode and the handset off the hook, you can establish an audio communication with the master door panel. It is only operative if there is no communication in progress.

With the telephone in standby mode and handset off the hook, press the button ☌ for 3 seconds, a confirmation tone will sound on the telephone, indicating that audio communication has been established with the master door panel.

The communication will last for one and a half minutes or until the handset is replaced.

"Automatic door opening" mode:

The T-520 LITE/G2+ telephone allows you to activate/deactivate the "automatic door opening" mode.

Activate "automatic door opening" mode:

With the telephone in standby mode (handset on hook), press the button ☌ for 8 sec., 3 confirmation beeps will be heard, indicating that the "automatic door opening" mode has been activated, (within 3 seconds of a call from the door panel).

Deactivate "automatic door opening" mode

With the telephone in standby mode (handset on hook), press the push button ☌ for 8 seconds, 1 confirmation beep will be heard, indicating that the 'automatic door opening' mode has been deactivated.
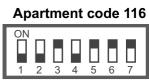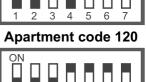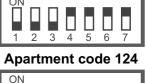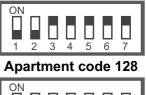
Setting audio volume in the telephone:

The telephone allows you to change the volume of the audio in the speaker of the communicating telephone (between 4 levels from minimum to maximum in carousel mode) through the function button ⌂ .

The telephone must be in communication, a short press on the button ⌂ , allows to change the audio volume on the telephone speaker, each short press reproduces the selected volume (between 4 levels from minimum to maximum and in carousel mode), stop pressing once the desired volume level is selected on the telephone. When communication has finished, the selected volume will be saved in the telephone.

Activate / deactivate "do not disturb" mode function:

-Activate 'do not disturb' mode: With the telephone in standby and the handset on hook, a 5 second press on the push button ⌂ activates the 'do not disturb' mode, 2 beep will be heard and the status LED will flash slow (red) indicating that the telephone is in 'do not disturb' mode, and will flash fast (red) when a call is in progress. The phone will not ring when receiving an incoming call (see note 'HZ' on page 4).

-Deactivate 'do not disturb' mode: With the telephone in standby mode and the handset on hook, a short press on the push button ⌂ deactivates the 'do not disturb' mode, 2 beep will be heard and the status LED will turn off.

Setting call tone volume:

The phone must be in standby mode and the handset must be on hook to adjust the volume of the call tone. A short press on the push button ⌂ allows you to listen to the current call tone volume (or to end if the 'do not disturb' mode was activated), each short press changes to the next volume level (minimum/medium/maximum).

"Call tone volume", "communication volume", "doctor mode" & "do not disturb", default value :

The T-520 LITE/G2+ telephone allows you to restore the "volume of the call tones", the "volume of communication", the "automatic door opening" (Doctor mode) and the "do not disturb mode" to the 'default value'.

With the telephone in standby mode and the handset on hook, press the push button ⌂ for 10 seconds, 4 confirmation beeps will be heard, indicating that the "volume of the call tones" level 2, the "volume of communication" level 2, the "automatic door opening" (Doctor mode) deactivated and the "do not disturb mode" deactivated on the telephone have been restored to the default value.
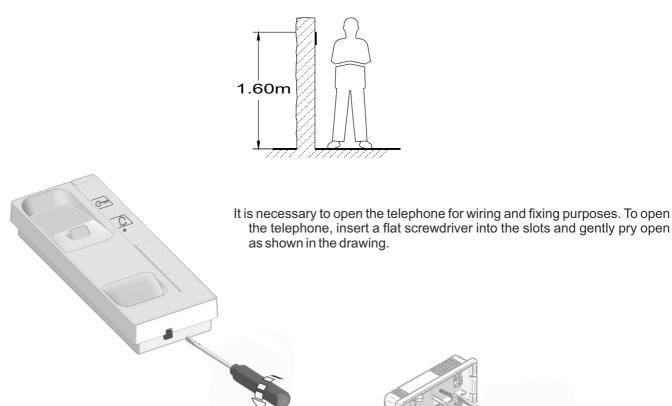
Cancel the 'call forwarding' process or 'communication' with door panel from G2Call+ App:

-If a call is made from the door panel to an apartment of a mixed video door entry system (ART 7W/G2+ V11 monitors and T-520 LITE/G2+ telephones in the same apartment) and the ART 7W/G2+ V11 monitor has "call forwarding" configured and activated; from an T-520 LITE/G2+ telephone in the same apartment settings as (S1, S2 or S3), you can cancel the process of "call forwarding" to an smartphone by picking up the telephone handset (information about this function, see the TART 7W G2+ V11 manual).

-If smartphone is in communication with door panel from G2Call+ App, you can cancel the communication process to an smartphone by pressing the button ⌂ on the telephone for more than 3 seconds (information about this function, see the TART 7W G2+ manual).
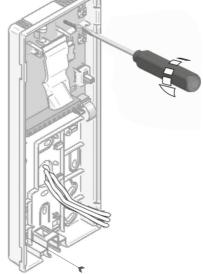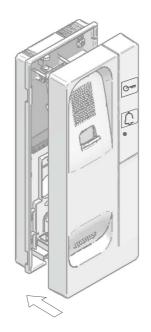
INSTALLING THE TELEPHONES

Fixing the telephone to the wall:

The top of the wall mounting connector should be located at a height of 1.60m from the ground. The minimum distance between the wall mounting connector and the closest object must be 5 cm.

It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a flat screwdriver into the slots and gently pry open as shown in the drawing.

Avoid dusty or smoky environments or locations near sources of heat. The telephone can be fixed to an electrical embedding box or directly to the wall. To secure directly to the wall, drill two 6mm holes at the specified positions using 6mm wall plugs and Ø3.5 x 25mm screws.
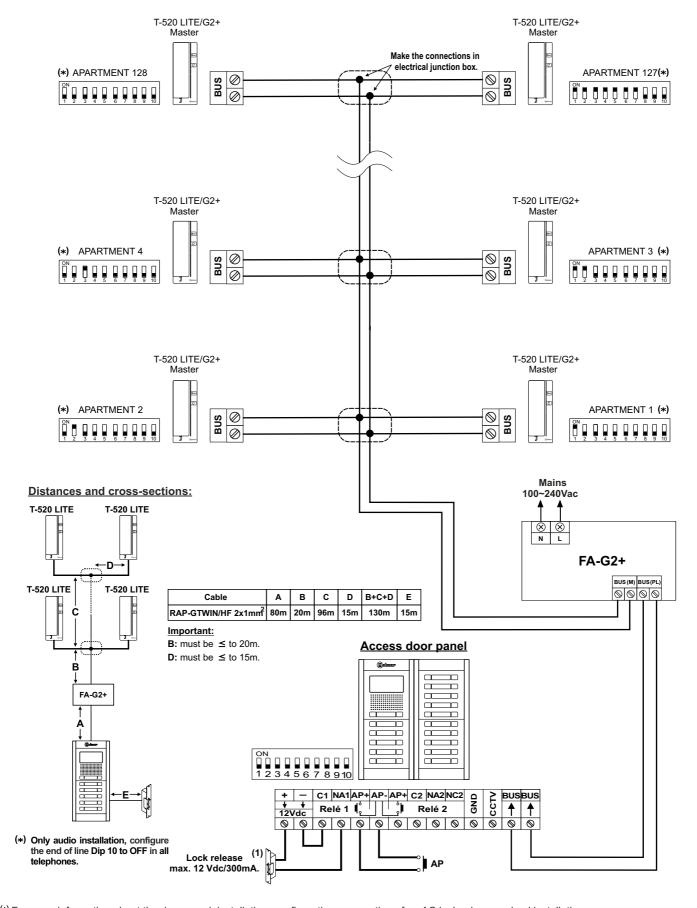
Pass the cables through the cable holes and connect them to the connector as per the wiring diagrams. Close the telephone as shown in the drawing. Once the telephone is closed, connect the handset using the telephone cord and place it on the hook.
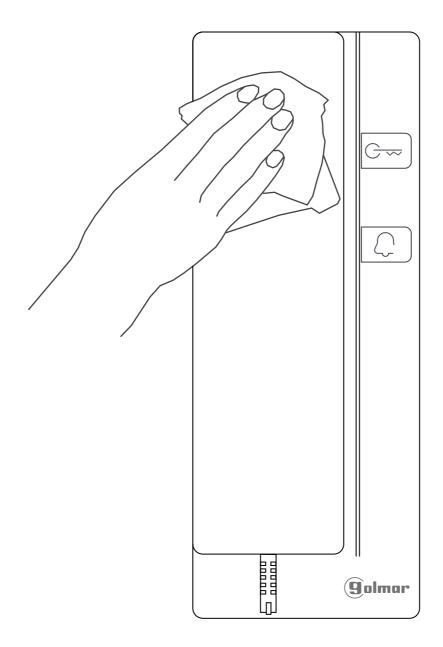
WIRING DIAGRAMS:

Audio door entry system with 128 apartments / T-520 LITE/G2+ telephones and Golmar d.c lock release.

Cable	A	B	C	D	B+C+D	E
RAP-GTWIN/HF 2x1mm²	80m	20m	96m	15m	130m	15m

Important:
B: must be ≤ to 20m.
D: must be ≤ to 15m.

(∗) **Only audio installation, configure the end of line Dip 10 to OFF in all telephones.**

Lock release max. 12 Vdc/300mA.

(¹) For more information about the door panel, installation, configuration, connection of an AC lock release, mixed installation with monitors and T-520 LITE/G2+ telephones and other wiring diagrams, (see the corresponding door panel manual).

CLEANING THE TELEPHONE:

- Do not use solvents, detergents or cleaning products that contain acids, vinegar or abrasive components.

- Use a soft damp lint-free cloth with water.

- Always wipe the telephone in the same direction, from top to bottom.

- After cleaning the telephone, remove any moisture with a soft dry lint-free cloth.

NOTES:

COMPLIANCE:

Este producto es conforme con las disposiciones de las Directivas Europeas aplicables respecto a la Compatibilidad Electromagnética *2014/30/CEE.*

*This product meets the essentials requirements of applicable European Directives regarding Electromagnetic Compatibility **2014/30/ECC**.*

NOTA: El funcionamiento de este equipo está sujeto a las siguientes condiciones:
(1) Este dispositivo no puede provocar interferencias dañinas, y (2) debe aceptar cualquier interferencia recibida, incluyendo las que pueden provocar un funcionamiento no deseado.

NOTE: Operation is subject to the following conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any received interference, including the ones that may cause undesired operation.

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