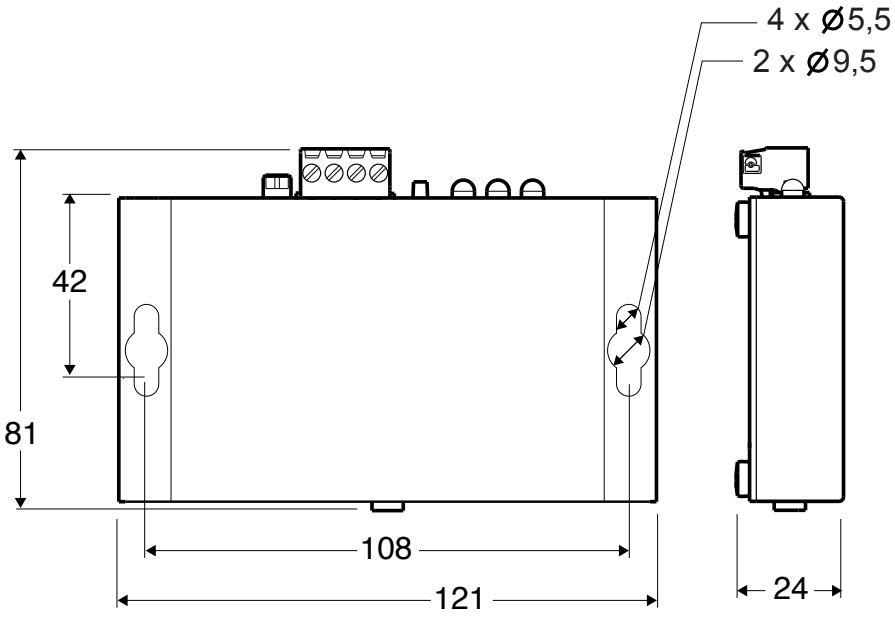
SafeLine®
Quality talks

SafeLine **GL1**

MANUAL



A GSM alternative for all of our lift telephones.

Lift emergency telephone

GL1 v1.011 EN
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www.safeline-group.com

SafeLine **GL1**

TECHNICAL DATA

Power:	Supply voltage: 10-30 VDC
Line Power:	Line voltage: 48 VDC when connected to GSM network.
Current consumption:	12 VDC 250 mA, momentarily when connecting a call. 50 mA at Standby.
Communication:	GSM-module Dual Band 900/1800 MHz.
Antenna connector type:	SMA (female)
IP code:	IP20
Size:	81 x 121 x 24 mm (H x W x D)
Weight:	220 gram

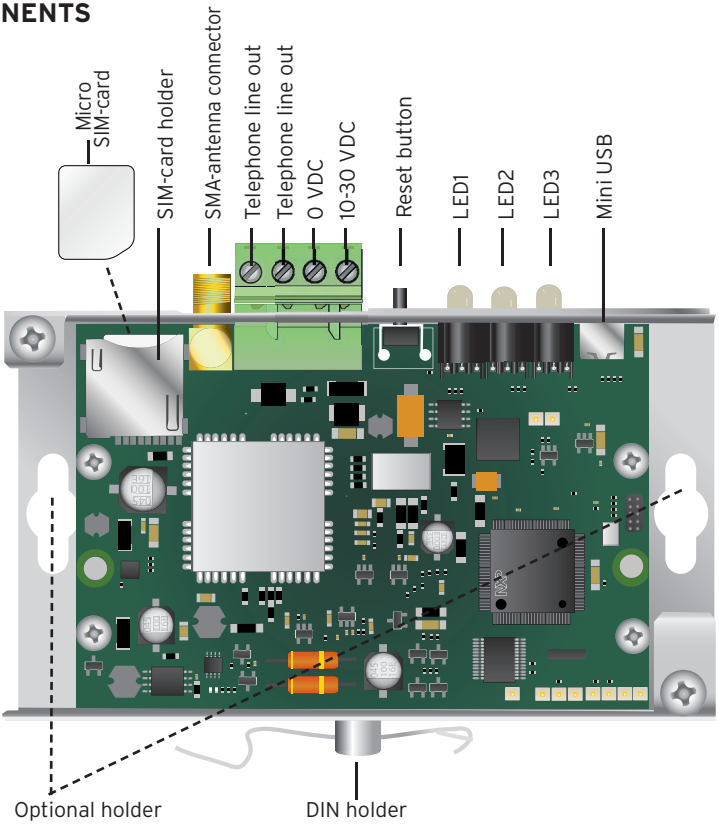
Unit is beeing delivered with a 3 m antenna cable, SMA contact (male).

INSTALLATION

START UP

SERVICE

COMPONENTS



SIM-card holder
The unit is using a micro SIM card.

SMA-antenna connector
The SMA-antenna connector type is female.

Terminal
Connection for supply voltage of 10-30 VDC and telephone lines for SafeLine phones.

Reset button
Push the reset button for 3 sec to see GSM field intensity.

LED's
There are three LED indicators. Refer to the "LED indication" on page 6.

Mini USB
Use the mini USB connection and the SLPro to update SW.

Holder
It is possible to attach the GL1 with either the DIN holder or the optional holder.

CONNECTING THE UNIT

To avoid GSM interference: Place the GL1, the lift emergency telephone and the GSM antenna at least 1,5 m apart.

USING THE SIM CARD

Before you can start using a new SIM card, the card has to be prepared and support 2G network. Cards that only support 3G will not function.

- If the PIN code is set to "1234", "0000" or if it is deactivated the SIM card can be moved from the SafeLine GL to any of the SafeLine GSM products.
- If the PIN code is set to "1111" the SIM card cannot be moved to any other telephone (SafeLine or otherwise) without the PUK code.

Do not activate the voicemail or if possible ask your provider to deactivate the voicemail.

If the PIN code is set to "1111" the SIM cards code will be randomly changed by the SafeLine GSM unit and memorised. This way the SIM card can only work with the SafeLine GSM unit unless you use the PUK code for setting up a new PIN code.

If you want to upload a new SIM card with PIN code "1111" you will need to first upload a SIM card with PIN code "1234" or "0000" this to clear the old code in memory.

PIN code (set to "1234", "0000" or deactivate).

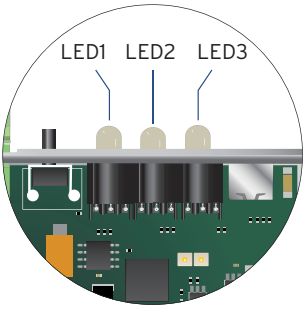
1. Insert the SIM card in an ordinary mobile phone. In the "Security settings" menu, change the PIN code to "1234", "0000" or set the "PIN code request" option to "OFF". NOTE! "0000" can not be use on all SIM cards. Please contact your service provider for details.
2. Verify the PIN code by switching your phone off and on again.
3. Make a call from your phone to verify that the SIM card is active, before you move it to the SafeLine GL1.
4. Also make a call to SafeLine GL1 after insertion of the SIM card, to check that it is possible to get a proper connection.

Protect the SIM card against unauthorized use.

1. Insert the SIM card in a mobile phone.
2. In the "Security settings" menu, change the PIN code to "1111". When the SIM card is inserted in the SafeLine unit, the code will be changed to a random number, thus making it impossible to use the card in another mobile phone unless it is unblocked by means of the PUK code.

If you enter the wrong PIN code 3 times, the SIM card will be blocked (requires PUK code to de-block). The GL1 cannot be started and the LED3 will be red.

LED INDICATION



COLOUR CODE	LED 1 2 3	SIGNAL STRENGTH
3 green		= 100 %
1 yellow, 2 green		= 85 %
2 yellow, 1 green		= 70 %
3 yellow		= 55 %
1 red, 2 yellow*		= 30 %
2 red, 1 yellow		= 15 %
3 red		= 0 %

*Minimum signal strength for using GSM Interface.

LED1, indicates the power supply status	
Continuous green	Power supply OK.
LED2, indicates GSM strength	
Indicates GSM strength and recieving audio level, RX-level (please refer to the tables).	
LED3, indicates communication	
Continuous red	GSM error.
Flashing red (400/400 ms)	Searching for GSM network.
Flashing yellow/green (100/100 ms)	Incoming call.
Continuous green	Call connected.
Flashing green (400/400 ms)	Call connection in progress.
Slowly flashing green (200/4600 ms)	GSM network OK.
Flashing green (100/100/100/2200 ms)	Handset not applied to/put on the unit correctly.

INCREASE RX AUDIO LEVEL

Increase the GSM receiving audio level by using of the setup mode.

1. To enter setup mode, first disconnect the power.
2. Then press the button and hold while restarting power and then for a further 3 seconds without letting go. The setup mode is now active.
3. To setup the GSM receiving audio level press the button to reach desired output level. The increase is in steps of 25% per push.
4. When the desired level is reached, turn off the power.
5. Then restart the unit. The new GSM receiving audio level is now stored.

COLOUR CODE	LED 1 2 3	RX AUDIO LEVEL
Not lit (default)		= 0 %
1 green		= 25 %
2 green		= 50 %
3 green		= 75 %
1 red, 2 green		= 100 %

It is also possible to adjust the settings via SLPro, under the GL6 tab.

TROUBLESHOOTING

LED1 is not lit when when the unit is connected to supply voltage.
- Check the supply voltage polarity.
- Make sure that the supply voltage is 10-30 VDC.

LED3 is lit, continous red.
- Make sure that the SIM-card is correctly positioned.
- Check that the SIM-cards PIN-code is deactivated or that the PIN-code is set to "1234", "0000" or "1111" (see the section SIM-card).
- Make sure that the SIM–card is activated and works by testing the card in an mobile phone.

The call is interrupted directly after being connected.
- If the unit is powered from a battery make sure the battery is properly charged.
- Make sure that the main power supply can deliver 300 mA continuous current.

Call can not be connected! Error message from telephone operator.
- To make a call, area code must always be used.

INTERFERENCE/ POOR SOUND QUALITY

- Bear in mind that the wiring between GL and the lift telephone/phone is basically a standard PSTN-line and can therefore not be placed in the lifts travelling cable together with high voltage. ***(Risk of interference)***
- Always place the antenna in an upward position and at least 1,5 m from GL.
- Place the antenna where the highest field intensity is obtained according to the table ("LED indication", page 6) for the unit.
- When a call is connected try placing the antenna in different places to find where the best receiving/sending position is.

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