

# FILI

## Fine Innovations Lift Intercom.

*The FILI was designed as a GSM Intercom for use in Lifts ( Elevators ).*

*Once the Emergency button is pressed in the lift the intercom will play a pre recorded message and then also dial and SMS pre-programmed numbers. Once a voice link has been established hands free communications can commence.*

*The GSM Intercom will automatically report via SMS a mains failure and restore.*

*When there is a mains fail the intercom will run on its own 7 Amp battery for up to 5 days. A built in charger will maintain the internal battery. The GSM Intercom can operate on Contract or Pre Paid SIM Cards.*

### **SPECIFICATIONS.**

- **SIM 800C GSM Quad band Module.**
- **10 second voice record and playback for Emergency Button.**
- **12 VDC operation with 7 Amp battery and Mains 220 VAC charger.**
- **Microphone and Speaker can be placed up to > 5 meters from Main Unit.**
- **Exceptional Voice Quality.**
- **2 Second delay on Emergency / Call button to eliminate false calls.**
- **Emergency Button SMS can be sent to up to 10 Cell Phones.**
- **Emergency Button SMS can be emailed to up to 10 email addresses.**
- **Tamper proof Cabinet.**
- **Over the Air programming.**
- **GSM Online LED Indication.**
- **SMS's Prepaid Balance every 5 days if used on Prepaid.**
- **SMS's Health test every 5 days if used on Contract.**

## **Installation.**

The FILI is normally installed on top of the lift car and mounted to either the railings or to the control box.

The Microphone is routed to inside the COP ( Cabin Operating Panel = floor button panel ) inside the lift.

The Speaker is either mounted in the roof of the lift car in the space where the Lights are mounted, or the Speaker is removed from its box and also mounted in the COP panel as most lifts have a speaker grill on the COP Panel.

Both Microphone and Speaker wires **MUST** be normal Twin Flex, no Twisted pair wires should be used.

**Do Not use the Microphone installed already in some lifts as this will cause GSM noise on the speaker.**

Mains is connected to the Control box on top of the lift car.

On some "Green Lifts" the mains must be taken from the control box Mains input and not the Mains output of the control box as the mains is switched off if the lift is not used for 20 minutes to save power.

The Emergency button INPUT1 on the FILI is polarity independent 12 VDC so that it can either be connected to the 12 VDC Emergency Bell or to a separate dry contact on the Emergency Button of the lift, See diagram of how to use the dry contact.

## **Operation.**

Once the FILI is installed connect the battery to power up the unit. Mains power can now also be switched on.

The FILI will power up and the NET LED ( LED3 ) will start to flash fast and then after +- 20 seconds once connected to network the NET LED ( LED3 ) will flash every 3 seconds.

**The FILI will then send a TIME SYNC SMS to itself to set the internal clock, a few seconds later the FILI will send MAINS ON or OFF SMS to our Lift Intercom Server to register as a new unit. Server number is +27820070540466 for Vodacom.**

**If any SMS fails E.G. no funds on SIM card the FILI will try a few times and may power the GSM module down and up when doing this.**

**If the SIM card is not working or has a PIN on it the FILI NET LED ( LED3 ) will always flash fast to show not connected to network. The FILI will also power down and up the GSM Module a few times to see if it can get onto network.**

Once all is well the Emergency button can be pressed and the FILI will start to play a pre-recorded message over the speaker. The Volume of this message can be set by pressing the button near the Voice Chip on the FILI PCB, each press will lower the volume until its lowest and the next press will return it to max volume.

While the message is playing the FILI will also send a "Emergency Button Alarm Message SMS to our Server and also start to dial the Programmed number in the unit.

After the message the Cell Ringing tone will be heard on the speaker.

When the Called party answers hands free conversation can continue for a Maximum of 2 Minutes or until the called party hangs up.

The Call Speaker volume and Microphone sensitivity can be adjusted over the air by programming.

Called Party normally the Lift company 24 Hour Emergency number.

The Lift company will then send out a technician who at any time can call the lift to reassure the persons in the lift. The FILI will auto answer incoming calls.

**Health Test.**

The FILI will automatically send either a health test or the pre paid balance every 5 days at a pre programmed time to our server.

These SMS's as well as the Emergency button SMS can be routed to up to 10 Cell Numbers or Email addresses by our server.

