MK852 emergency telephone

Installation guide

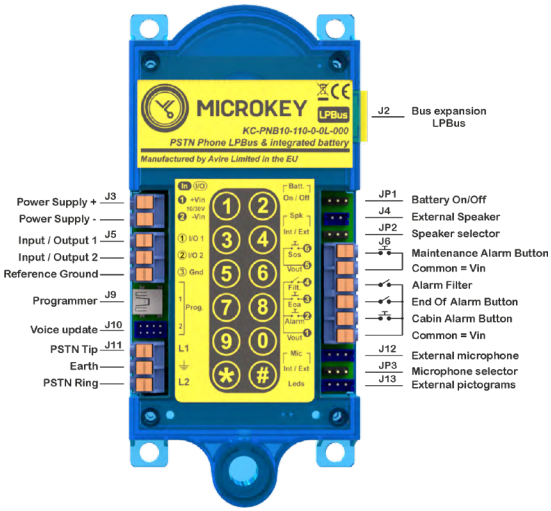
Ref No.: MU-MK852-01EN

Guide for use with product:
MK852-PNB10-110-A-0L

The MK852 is a standalone, PSTN, hands-free, rescue telephone with built-in battery and programming keypad that has the advantages of high reliability and low cost. It is therefore perfect for use in refurbished lifts where there is an analogue telephone line (RTC/PSTN) or a mobile line supplied by a GSM link (like the MK830).

The MK852 can be used as a replacement for the MK842 and the MK742 as it can simulate the behaviour of both pieces of equipment through the corresponding configuration.

CONNECTION



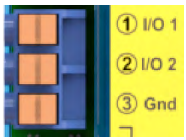
CONNECTIONS

Connector J3 (Power supply)

The voltage range permitted by the equipment is 10 to 30 VDC. If the voltage is less than 10 VDC, the equipment will rely on its internal battery to ensure continued operation.

Under no circumstances should 30 VDC be exceeded. The equipment may be damaged if the supply voltage exceeds this limit.

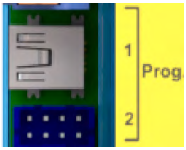
Connector J5 (Inputs/outputs)



The MK852 incorporates 2 configurable and programmable inputs/outputs.

- Outputs Vout =Vin (10-30 VDC) 300 mA max.
- Inputs 10-30 VDC

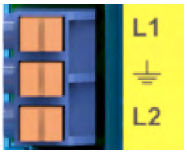
Connectors J9 and J10 (External programmers)



Connector J9 can be connected with an external programmer with screen.

Connector J10 can be connected to the external programmer to update the firmware and the voice synthesis that is pre-programmed by default in the factory.

Connector J11 (Telephone line)

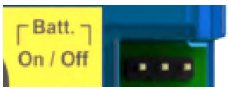


The external telephone line is connected to this connector. It is very important to connect the earth to the central terminal of this connector. This connection ensures that any surges and overvoltage that may occur on the equipment, especially in an electrical storm, continue to be filtered. The absence of this connection can cause damage to the equipment as a result of overvoltage and/or surges.

Connector J2 (LPBus)

LPBus is a digital communication channel that enables external devices to be connected to the equipment, such as external audio modules (roof and floor of the lift car), inductive loops, interfaces with control systems from different manufacturers (allowing synthesised voice messages to be launched depending on the system events, including positional use).

Connector JP1 (Battery)



The JP1 selector enables the internal battery to be connected and disconnected as required. Simply move the jumper to the required position (1-2 On, 2-3 Off).

The battery is delivered from the factory disconnected so it will need connecting during the equipment installation process.
It is recommended to disconnect the battery if the equipment is not going to be used for a long period of time.

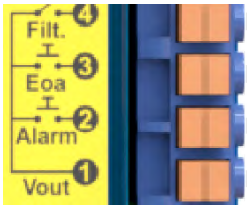
Connector J4 and selector JP2 (Speaker)

JP2
INT EXT

An external speaker can be used to make it easier to install the equipment in confined spaces. The equipment has a selector (JP2) for choosing between the internal speaker or an external speaker. Place the jumper between 1-2 to select the internal speaker (default option) and between 2-3 to select an external speaker. Connect the speaker supplied to connector J4. To avoid damage, it is important to only use approved components. Contact Avire for the available options.

Connector J6 (Inputs)

The push button (SOS) uses it to call maintenance personnel for help if somebody is trapped in the installation. A call is made to a specific telephone number as the first option if required.



The filter (Filt) input blocks activation of the alarm. It is used to prevent false alarms and is normally controlled by the lift's control system.
The end of alarm (EOA) input is used by the personnel carrying out the rescue, in the event of an alarm, to notify the unit that the rescue has finished.
The alarm input corresponds to the public button in the lift car and it is this button that activates the telephone connection process with the station to call for help if somebody is trapped in the lift.

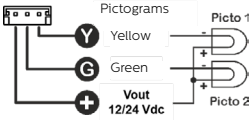
Connector J12 and selector JP3 (Microphone)

JP3
INT EXT

An external microphone can be used to make it easier to install the equipment in confined spaces. The equipment has a selector (JP3) for choosing between the internal microphone or an external microphone. Place the jumper between 1-2 to select the internal microphone (default option) and between 2-3 to select an external microphone. Connect the microphone supplied to connector J12. To avoid damage, it is important to only use approved components. Contact Avire for the available options.

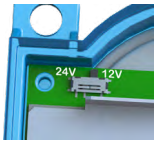
Connector J13 (External pictograms)

This connector enables external LEDs (pictograms) to be added to the equipment if you do not want to use those built into the equipment. In this case, you can use pliers or tongs to remove the lenses from the built-in LEDs and therefore stop the lenses sticking out on the internal face of the telephone.



Both a cable prepared for connecting to external 12V/24V pictograms and a complete cable with green and yellow LEDs included are available as accessories.

Voltage selector for external pictograms



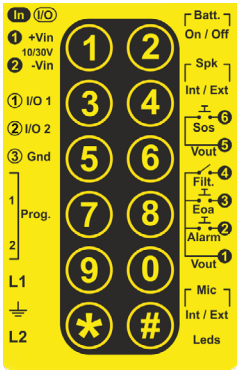
12 VDC or 24 VDC pictograms can be controlled. To select the right voltage for the application, simply move the switch to the position indicated.
The maximum current for each pictogram is 20 mA.
To access the switch, open the back cover of the equipment. By default, the telephone comes with the 12 VDC output selected.

INDICATOR LAMPS

Mode EN81-28		
Yellow	Green	Current status of device
○	○	On standby
●	○	Alarm activated
○	●	Communication established
☀	☀	Error in last test. [1]

[1] If the last test call was not completed, the two lights will come on alternately until the problem is solved and a test call can be made correctly.

LOCAL PROGRAMMING/LOOKUP



The MK852 can be programmed locally using the unit's built-in keypad. The preset value for any parameter can also be checked.

The value of each parameter (YY...Y) can be modified using the respective code (XX). Refer to the table to see each code and the permitted values for each parameter.

Programming of each command:

- Press *, the code number, # (*XX#)
- The equipment beeps
- Enter the value of the parameter followed by # (YY...Y #)
- The equipment responds with a voice message confirming whether or not the parameter value is correct.

There are some specific direct action commands that do not have parameter values YYY (e.g. force the equipment to end the call).

Parameter value lookup:

- Press *, the code number, * (*XX*)
- The equipment uses a voice message to give the value of the parameter "Option XX is YY..Y"

REMOTE PROGRAMMING/LOOKUP

The equipment can be configured remotely from the Avire HUB, from the receiver station or through a call from any telephone.

In the latter case, the format of the commands and the equipment's response are identical to local programming using the equipment's own keypad.

STARTING UP THE EQUIPMENT

- The first step should be to wire in the equipment. ([1])
  - Connect the buttons
  - Connect the telephone line ([2])
  - Connect the power supply
  - Connect the battery ([3])
- Programme at least one alarm telephone number to call in the event of entrapment.
- Configure the equipment (if you want to change the factory default programming).
- To find out the number of the lift car programmed: When the power is connected, you will hear a series of beeps, as well as the number of the lift car in question.

To programme a telephone number, you need to follow the steps below.

1. Enter the equipment access code.

Enter command *40#→ "♪". YYYY#→ "Code correct. Enter option"".

"YYYY" = Access code. The factory-set equipment access code is 0000

2. Programme a telephone number to call in the event of an alarm

Enter command *02#→ "♪" YY.....YY#→ "Command correct".

"YYY...YY" is the telephone number you want to programme with a maximum of 15 digits.

By following these steps, the equipment is now operational. It is recommended to programme more than 1 telephone number and also the ID but this is optional.

[1] All the buttons can be NO or NC. In the factory configuration, they are set as NO. If you want to change some or all of them, see programming commands 17, 18 and 19.

[2] The equipment has a protection system against overvoltage from the telephone line, especially in the event of electrical storms. This protection is especially useful in non-urban areas. For the protector to work properly, the building earth needs connecting to the central terminal of the telephone line connector J11.

[3] To prevent the battery discharging during storage of the equipment, it is delivered from the factory disconnected. To connect it, move the battery connection jumper (JP1) from the "Off" position to the "On" position.

This operation is essential for the equipment to operate in a power cut.

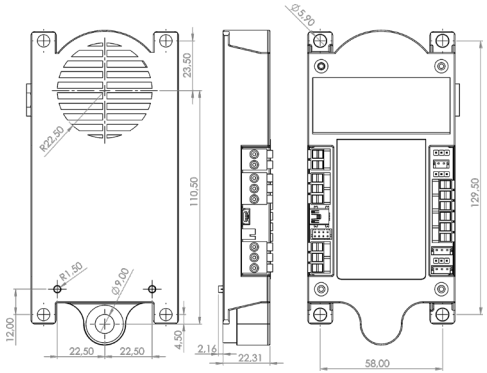
DECLARATION OF CONFORMITY

Avire declares that this product complies with the essential requirements and other relevant provisions of the following Directives: 2014/30/EU; 2014/33/EU and 2011/65/EU.

DISPOSAL OF ELECTRICAL/ELECTRONIC EQUIPMENT

This symbol on the product or the packaging means that this product cannot be disposed of with household waste. It is the user's responsibility to dispose of this product at a recycling facility or return it to Avire so that its recycling can be managed appropriately.

EQUIPMENT DIMENSIONS



List of accessories for use with the MK852 telephone:

MK852-PNB10-110-A-0L	MK852 LPBus analogue telephone
MK892-AET08-100-0-0L	Digital triphony unit with built-in speaker and microphone, with two buttons (SOS and EOL), can be connected via LPBus (low power BUS) for roof and/or under the lift car
MK892-AES07-10E-0-0L	Surface accessory for lift car with speaker, microphone, button, inductive loop and emergency light built in. Connectable via LPBus. Enables the main MK852 to become a lift car roof unit.
MK883-ALB02-100-0-0L	Inductive loop connectable via LPBus
MK81300MK1	Additional SOS Microkey button for additional call points without audio or microphone.
JC-KTM00-100-A-00-000	Machine room unit, which enables communication between machine room and lift car with telephone line wires.
MK996-KTB00-110-0-00	Microphone, speaker and LED extension (replacing those inside the MK852)
MK999RE039-B1	External isolated LEDs
MK82500MK1	12 V power source
MK80500MK1	Power source with 1A backup battery (it is not essential as the MK852 has its own built-in battery)
MK99800MK1	Steel plate with button for flush mounting
MC-KTF00-100-0-00-000	Steel plate without button for flush mounting
MK83000MK1	Microkey 2G universal GSM link

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