280 mm

110,5 mm

Radio Receiver
Set up

Wired | Stand-alone

RS-485 Bus

Out A: Relay output
Out B: Battery alarm
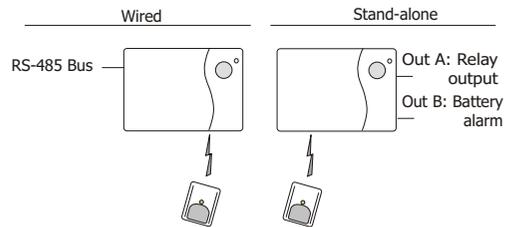
Mode selector setting: C - Radio receiver with battery alarm on OUT B.
B - Radio receiver.

Wired setting: Resends incoming radio transmissions on the RS-485 system bus.
The outputs can be triggered via the bus (For detailed information - See the Technical Handbook.

Stand-alone setting: Max 8 transmitters per output can be programmed to trigger the outputs
(NOTE! If the selected mode is C, then the OUT B is reserved for Battery Alarm.

Prog. Transmitters: 1. Press the Reset switch (B) for 1 - 3 seconds to program OUT A or for 3.5 - 6.5 seconds to program OUT B.

2. Press the transmitter to be programmed.

3. Confirm by pressing the reset switch (B).

I/O Module
Set up

RS-485 Bus

OUT A
OUT B
IN A (NO) Type 10
IN B (NC) Type 28
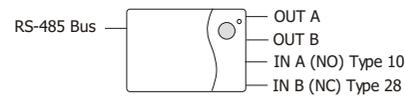
Mode selector setting: B

General: The inputs generate signals sent on to the system bus.

The inputs are assigned:
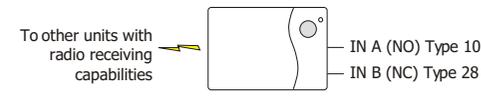A - alarm type 10 (Assistance Alarm)
B - alarm type 28 (Door Alarm)

(Input B is in parallel with the Reed switch.)

The types of the inputs can be modified by using the Smart Call 8200 Programming Unit.
For more information - see the Technical Handbook.

The outputs can be triggered via the system bus - see the technical handbook.

Radio Transmitter
Set up

To other units with radio receiving capabilities

IN A (NO) Type 10
IN B (NC) Type 28

Mode selector setting: A

General: The inputs generate signals resent by radio.

The inputs are assigned:
A - alarm type 10 (Assistance Alarm)
B - alarm type 28 (Door Alarm)

(Input B is in parallel with the Reed switch.)

The types of the inputs can be modified by using the Smart Call 8200 Programming Unit.
For more information - see the Technical Handbook.

Repeater
Set up

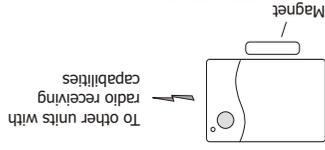To other units with radio receiving capabilities
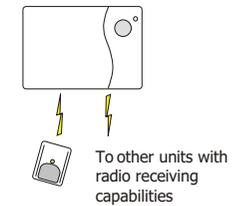
Mode selector setting: D

General: The incoming radio transmissions are resent via radio.

Normally the repeater resends all incoming transmissions. However, the transmitters to be resent can be limited.

Prog. Transmitters: 1. Press the reset switch (B) for 1 - 3 seconds.

2. Press the transmitter.

3. Confirm the programming by pressing the reset switch (B)

Door Alarm
Set up

Magnet (Art.no. 1200-MKT440. Ordered separately)

To other units with radio receiving capabilities

Mode selector setting: A

General: The door alarm transmits an alarm at a pre-set delay, default 10s, after removing the magnet from the door alarm.

The door alarm can be programmed to send alarms during a certain interval using the Smart Call 8200 Programming Unit. The door alarm can also be used in a RS-485 wired setting.
For details, see the technical handbook.

Usage: To prevent the door alarm from being triggered, press the Reset switch (B) before entering a monitored door.

When leaving the room, press the Reset switch (B) to prevent the alarm to be sent.

Installation: Mount the magnet with the arrows pointing at the switch symbol on the door alarm. Mounting distance 5-10 mm.

Monitoring battery alarm

When used as a door alarm, stand-alone battery powered receiver, or repeater, the mBox continuously monitors the batteries' voltage level, and can issue an alarm when the batteries need replacing. In a transmitter or wireless door alarm application, battery alarms are automatically sent to the unit where the mBox is installed, often a 4200 or a 950i.

In order to receiver battery alarms in receiver or repeater modes, you have to program the mBox to a receiver.

Example, 950i:
1. Turn the Mode Selector to mode A.
2. Press NEW on the 950i keyboard.
3. Enter an alarm ID, for instance "9001".
4. Press the Reset/Program switch on the mBox.
5. Press OK on the 950i.
6. Turn the Mode Selector back to receiver or repeater mode.

The LED on the front of the mBox will also indicate a weak battery by flashing in red colour, instead of green.

When operating as a stand-alone receiver, you can also make the mBox react to battery alarms from programmed transmitters. With the mode selector switch in A, output B will be closed momentarily when a battery alarm is received.

Replacing batteries
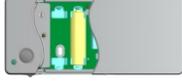
Sliding the cover to position two will make the batteries accessible.
Use Alkaline AA (LR06) batteries only.

We recommend that the batteries are removed if the unit is not used for an extended period of time. The real-time clock should always be checked after replacing the batteries. Time and date will be retained for approximately 30 seconds without batteries.

Battery life expectancy

The battery life is highly dependent upon the quality of the batteries and how the mBox is used. In receiver and repeater modes, interference from other transmitters may also affect battery life.

Mode	Description	Nom. battery life*
OFF	Turned off, power used for clock only	> 2 years*
Door Alarm	Normal use as door alarm	> 2 years*
Receiver	Normal use, stand-alone receiver	6-12 months
Repeater	Normal use, stand-alone repeater	6-12 months

* For further reference - see technical handbook

Technical Data

Voltage	9 – 30 VDC or 2x1,5V LR06 (AA) Alkaline

Current consumption, powered by batteries

door alarm mode	5µA
when an input is activated (3 sec.)	25mA
receiver mode	100µA
when an output is activated (2 sec.)	70mA

Current consumption, external power supply

when idle	30mA
when activating an output	100mA

Radio	868 MHz, 6A code (433 MHz version available on request)
Number of transmitters (stand-alone receiver)	Max 8 transmitters/output
Data bus	RS-485
Protocol	Smart Call System 5000
Inputs	2 inputs, activated on connection to gnd.
Outputs	2 relay outputs.Max 1A / 30VDC.
Minimum pulse width	512 ms
Maximum cable length	30 meters
Size	110.0 x 70.0 x 23.5 mm
Temperature range	0 – 40 ºC

User's guide
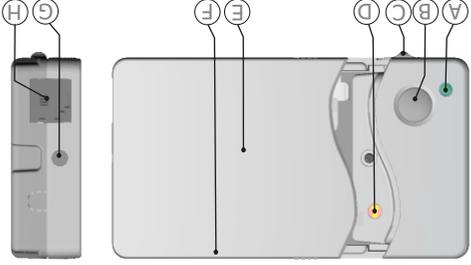
A Status LED
B Reset switch
C On/Off switch
D Mode selector
E Sliding cover (here partly opened)
F Reed switch for door alarm
G Screw hole for locking the sliding cover (screw inside)
H RS-485 Bus connector

NOTE! Remove safety strip from battery before use

Smart Call® 5200 mBox™

Smart Call

Mbox User's guide

Left picture: User's guide folded into 4 double sided pages

Picture below: Folded user's guide placed in the bottom of the unit box, it should be placed below (at the back of the mBox) to eliminate the risk of black color/ink to blacken/darken the front of the mBox.

Info
At the front page there is a picture in color, anyway we want the user's guide printed in grey scale (black/white)
The red markings at the back page is for cutting the user's guide to right size, the green dotted markings is where the user's guide is to be folded.

Note
The printing company needs to check the size, centering etc. Before printing a large no. In case of that something have been wrong in the file formatting.