

MICROSOUND SYSTEMS

MF205 CALL BACK SYSTEM

INSTALLATION MANUAL

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1. GENERAL DESCRIPTION

The M03 is a common wire remote call back system with a central digital display unit indicating the calling stations number. The system has been designed to compliment the MF400 by providing the call back to central points. The system can also be used on its own. The main applications will be for use in Retirement Villages, Town House Complexes, Industrial Parks, Office Blocks and Shopping Malls to provide call back to security.

2. FEATURES

1. Fifty M03 (remote units) per zone.
2. Remote unit can call to 4 different points.
3. One of above is an emergency call back.
4. Remote units cannot block system.
5. Dip switch on remote to set code.
6. Central display with 2 or 4 zones.
7. Central can store 8 call backs.
8. Central displays emergency as priority.
9. Central buzzer to indicate a call back.
10. Three common wires per zone.

3. OPERATION

1. MF454 Remote call back unit.

1. Press and release the call back button.

2. MF205 Central display

1. The call back number is displayed.
2. The buzzer sounds.
3. Press the accept button to silence the buzzer.
4. Press the reset button to clear the display.
5. If there are more than one call back each time the reset button is pressed and the next call back will be displayed.
6. Emergency call back takes preference over normal callbacks.

4. INSTALLATION

1. Three common wires are required from the central in parallel to all the MF454-304 (remote call back units) per zone.
2. The three cores are for +15VDC, GND and call back. A 3 core 0.5 mm overall mylar screened cable can be used for indoors up to 200 metres, for up to 800 metres a 1.5mm norsk cable must be used, an outdoor cable with an overall screen must be used for external use. All the screens must be connected and earthed at one point for protection against lightning and noise.
3. If more than one Central is used, positive, ground, plus one core for each zone must be connected between the central display stations. If more than one central display is installed, the pull up resistor R7 on the display PCB must remain in the main central, but removed in the other centrals.
4. The power supply can be connected to system at any point.
5. The supply must be mounted in a cool ventilated accessible position. Do not run the call back output in the same cable with any of the switch inputs in the remote callback PCB.

5. MF 454 (remote callback) CONNECTIONS

J1 1 +15VDC from power supply.

J1 2 GROUND from power supply.
J1 3 CALLBACK signal to central.
J1 4 GROUND input from emergency switch.
J1 5 INPUT from emergency switch.

J2 1 GROUND common to callback switches.
J2 2 EMERGENCY input switch. (from handset only)
J2 3 CALLBACK input switch 3. (from handset only)
J2 4 CALLBACK input switch 2. (from handset only)
J2 5 CALLBACK input switch 1. (from handset only)

6. MF 205 (central) CONNECTIONS

1. Connections in the box

RED	+15VDC
BLACK	GROUND
GREEN	ZONE 1 CALLBACK input
YELLOW	ZONE 2 CALLBACK input
PURPLE	ZONE 3 CALLBACK input
SLATE	ZONE 4 CALLBACK input

2. PCB Connections

J2 1 +15v DC from PSU
J2 2 GROUND from PSU
J2 3 EMERGENCY BUZZER. NEGATIVE INPUT
J2 4 GROUND
J2 5 CALLBACK INPUT

J1 1 N/C
J1 2 N/C
J1 3 COMMON TO ACCEPT AND RESET BUTTONS
J1 4 N/C
J1 5 RESET BUTTON INPUT
J1 6 ACCEPT BUTTON INPUT
J1 7 N/C
J1 8 N/C

7. MF 454 (remote unit) PROGRAMMING

To program the number set the switch SW1 as per the table below.

SW1	1 on = 1 (decimal)
	2 on = 2
	3 on = 4
	4 on = 8
	5 on = 16
	6 on = 3
	7 on = 64
	8 on = 128

EXAMPLE

Callback number 72

SW1	7 on = 64
	4 on = 8

8. MF 205 (central display) PROGRAMMING

Switch SW1 sets the PCB to which call back button it will display. The display PCB can only be set to display one callback button plus the emergency.

SW1 1 on = Callback button 1
2 on = Callback button 2
3 on = Callback button 3
4 on = Emergency input

Resistor R7 (220 OHM) must be removed from the second, third and fourth PCB if more than one central display is used. There must only be one pull up resistor per zone.

9. TECHNICAL SPECIFICATIONS

1. Power Supply

Input 220 VAC (lightning protected)
Output 15 VDC
Current 3 amps

2. MF 454 Callback Unit

Power input 15 VDC
Current Idle 5ma
Transmitting 10mA
Cabling 3 common wires with overall screen to central

3. MF 205 Central Display

Input 15 VDC
Current 20mA idle per zone
30mA Maximum per zone

10. GUARANTEE

The MF 454 and MF 205 are guaranteed by the manufacture for a period of six months from the date of delivery against faulty components and faulty workmanship (ex factory).

Manufactured by:

Microsound Systems cc
P.O. Box 38220
Boysens
2016
Phone 011 493-2424 Fax 011 493-0347