

Microsound Systems

FPC10/20/40 Fire Intercom

Instruction Manual

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## 1. General Description

The Fire Intercom FPC10/20/40 is used to report a fire incident to the security desk from Red Handsets FP03HS placed at various locations in a building. The system comes in various sizes, 10-Way, 20-Way and 40-Way Master. If larger systems are required, the SLSI-80-77 Controller can be used with the Red Handsets RHR2.

## 2. Applications

Multi-storey Office & Apartment Buildings, Hospitals, Airports, Shopping Malls or Factories.

## 3. Facilities

1. Remote Handset to Master Station call back, with LED & Tone indication.
2. Full duplex communication between Handset and Master.
3. Handset at Master Station.
4. Auto time out even if Master Handset is not replaced.
5. Master Station to Handset call if SLSI-80-77 Controller is used.
6. Battery backup if a Battery is added to the system.
7. Red Fire Enclosure with Perspex Door is available for remote Handsets.
8. Remote buzzer output at Master.

## 4. Operation

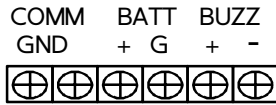
1. When a remote Handset is lifted, the corresponding LED on the Master Station will light and the buzzer will sound.
2. Lift the Master Handset and press the corresponding button once. Audio will then be established with the remote Handset. When the Master Handset is replaced the call is cancelled. If a second callback is made, the LED will light but the buzzer will only sound when the Master Handset is replaced.

## 5. Installation

1. A 220V AC outlet socket is required to power the intercom. Unplug the 220V mains before working on the system.
2. A 0,8mm Fire Alarm Cable must be used to wire the Handsets. One individual core per Handset is required for RX and one for TX, plus one common core to all Handsets for ground, double up on this core for larger systems. A 3 meter cable is supplied with each Master Station to the termination box.
3. A 12V Sealed Lead Acid Battery with a maximum capacity of 1,2 amp per hour can be connected to the Master to provide +/- 5 hours of backup. Do Not use the 7AH Alarm Battery!
4. A 12V extension buzzer can also be connected to the Master Station.
5. The TX volume to the Handset can be adjusted with P2 and the RX volume with P1.

## 6. Termination Box Wiring

+ = RX  
- = TX

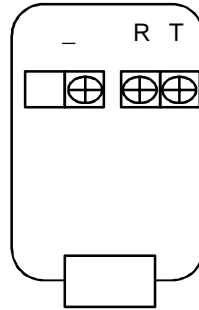


### Remote handset socket wiring

Common GND -

RX

TX



## 7. Technical Specifications

Master Station has built-in lightning protection.

System voltage is 13,5V DC

In idle condition current is 35mA

Handset communication current is 73mA

FPC10 Mechanical Size:      Width 300mm  
   Depth 200mm  
   Height Front: 55mm, Rear: 82mm

FPC20 Mechanical Size:      Width 390mm  
   Depth 200mm  
   Height Front: 55mm, Rear: 82mm

FPC40 Mechanical Size:      Width 620mm  
   Depth 200mm  
   Height Front: 55mm, Rear: 82mm

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