MPS01 Paging and Emergency Microphone

Protec Fire Detection plc

- **EN54 Compliant Indicators and Controls**

- **Live, Store-and-Forward, and Recorded Message Broadcasts**

- **Silent 'No-Click' PTT Button**

- **Speech Level 'VU' Bargraph**

- **PA Zone Selection on Graphic LCD Display**

The MPS01 Modular Paging and Emergency Microphone is a powerful and flexible paging microphone which can provide live, store-and-forward, and recorded message broadcast into user selected zones, and also provides EN54 compliant emergency functions and all EN54 mandatory indicators and controls.

The unit consists of a sloping desk console with a flexible gooseneck paging microphone, graphic LCD display, silent operation 'Touch to Talk' touch pad PTT button, and a rotary selector touch control. PA zone selection is provided using the rotary selector and graphic LCD display. There is also a VU bargraph which displays the microphone signal level.

The MPS01 has multiple PA/VA system interfaces. It can be connected directly to either one or two audio routers, enabling multiple options for providing system redundancy. The MPS01 will also operate in an All-Call hardware bypass mode in the event of processor failure within a host Voice Alarm router. All interconnect cabling and the microphone capsule is continuously monitored for open and short circuits.

As well as the main microphone gooseneck, there are 3.5mm jack plug connections for an auxiliary audio input, such as for background music, and for connection of a microphone headset. A general purpose local contact input and output enables use with PTT foot switches and external speak now indicators.

The unit can be fitted with a uSD card to hold user recorded or pre-recorded audio messages, and custom user chimes, and can be used to replay these messages over the PA system. A speaker is provided on the underside of the console, and this enables preview of the locally stored DVA messages, and also enables remote PA zones to be listened to.

Features Continued:
- Loudspeaker with PA Zone Listen-In Function.
- Background Music Input and Control.
- Fully Monitored, with EN54 Fault List Display.
- Wall Mount, Headset and Fist Microphone Options.
- Dual Redundant Audio Outputs for A & B Routers plus Hardware Bypass Fallback.

ADDRESSING SAFETY SYSTEMS WITH INTELLIGENCE

Technical Specification

General

Power Supply Inputs .... Dual 18 to 48V DC
Dual Redundant Power Inputs on Router Mic. Ports
PoE on Ethernet Port
Current Consumption
Min...98mA @ 24V DC supply
Max... 152mA @ 24V DC supply
Chimes..1, 2 and 3 Note Chimes, plus User Chime
uSD Card User Wav files or via ASL Router
Format / Colour ....Sloping desk console / Black and grey

Installation Connections

Position .... MPS Connection Bay on Underside
Direct Router Connections.. 2 ports / RJ45
Router 1 Mic. Port & Router 2 Mic. Port
Audio Out... 0dBu balanced (nominal) / 66R
Control Data.. EIA RS485 / 38400 baud
'Listen In' Audio Input................................0 dBu balanced (nominal)
Hardware Bypass Connections...1 port / RJ45
Mic. Aux Port
Push To Talk (PTT) switch ....Router 1 & Router 2
Speak Now Indicator ....Router 1 & Router 2
Listen-In Audio Input.. 0dBu balanced (nominal)
On the MIC.AUX Port
IP Network Connection.......................................100baseT Ethernet / RJ45
With PoE (Power over Ethernet)
USB Connection.. USB Slave / 'B' Socket
(Used for Software and Config Update only)

Audio Sources and IP Connectivity

Audio Sources.................................... Mic. / Aux. Audio / Recorded DVAs
Microphone ....Live Speech Input
Mic. Types..Gooseneck or Fist Mic.
(Factory Fit options)
Modes... Live / Store and Forward
IP Network...........................Two simultaneous channels out, plus one in
Mic. / Aux. Audio / Recorded DVAs s
Aux. Input Port .... Background Music (BGM)
(Or Auxiliary Audio Source)
Recorded DVA Message Storage...................................uSD Card Storage
Routine 'Security' Messages
Custom 'User' Chimes

User Interface

Front Panel GUI .... LCD Display and Buttons
All EN54-16 Mandatory Controls and Indicators
Fault Reporting & Status Display
Buttons.. All Touch Sensitive
PTT.. No-Click Touch Pad PTT
GUI Navigation..Touch Rotary Selector
Menu Controls.. Fault Mode / Setup Mode
LED Indicators.. EN54 and General
General Indicators...2 Indicators
PTT Touch Indication
VU Level Bargraph (5 LEDs)
EN54 Mandatory Indicators... 4 LEDs
Power / Voice Alarm / System fault / Fault
LCD Display .... Graphic dot matrix backlit
GUI Languages...................................English plus Custom Language
Custom Language stored on uSD Card
Emergency Mode Select ....Side Panel Keyswitch
Raises priority to Emergency Level
Enables EN54 LED Operation
Standards ....EN54-16, ISO 7240-16 / BS5839-8
Microphone ....Replaceable / Alternate Types Available
Gooseneck or Fist Mic.

Environmental

Temperature Range ....
Operating Temperature Range................................... −10°C to +55°C
Storage Temperature Range...................................... −20°C to +55°C
Humidity Range.. 0% to 93% Non-condensing
Ingress Protection IP30

Dimensions and Weight

Dimensions (H x W x D) ....52mm x 178mm x 200mm
(Excluding gooseneck)
Standard Gooseneck length 300mm
Weight.. 1kg

Protec Fire Detection Plc, Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT