

MPS10 - MPS50 Modular Paging and Emergency Microphone

- 10, 20, 30, 40, or 50 Selection Buttons
- EN54 Compliant Indicators and Controls
- Live, Store-and-Forward, and Recorded Broadcasts
- Silent 'No-Click' PTT Button
- Speech Level 'VU' Bargraph
- Loudspeaker with PA Zone Listen-In Function
- Background Music Input and Control



The MPS10, MPS20, MPS30, MPS40, and MPS50 are powerful and flexible paging microphones which can provide live, store-and-forward, and recorded message broadcast into user selected zones, and also provide EN54 compliant emergency functions and all EN54 mandatory indicators and controls.

The units each consist of a MPS01 sloping desk console with a flexible gooseneck paging microphone, graphic LCD display, and silent operation 'Touch to Talk' touch pad PTT button, together with one or more additional MPX10 zone selection and control button modules. The number of additional buttons depends on the model, with the MPS10 having ten extra Select buttons, and the MPS50 having fifty. PA zone selection is provided by the Select buttons or by using the rotary selector and graphic LCD display. There is also a VU bargraph which displays the microphone signal level.

The MPS range has multiple system interfaces, and can be connected directly to either one or two audio routers. The microphones will also operate in a hardware bypass fallback mode in the event of failure within a host router. All interconnect cabling and the microphone

capsule is continuously monitored.

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 speaker now indicators.

The units 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:

- Fully Monitored, with EN54 Fault List Display
- Wall Mount, Headset and Fist Microphone Options
- PA Zone Selection on Buttons or Graphic LCD Display
- Dual Redundant Audio Outputs for A & B Routers plus Hardware Bypass Fallback

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. (MPS01 Base Unit).....	152mA @ 24V DC supply
Max. (Extra per ten button module)	100mA@ 24V DC
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

Button Modules

Buttons.....	Ten Buttons per MPX10 Add-On Module
Button Functions	PA Zone Select / Listen-In Select / DVA Routing / Music Control / Routing Control / Others
Button Label.....	Printed Label Under Protective Clip-In Window
Button LEDs.....	Three LEDs per Select Button
Paging Mode.....	Green = 'Select' / Yellow = 'Listen-In' / Red = 'Busy'
EN54 Emergency Mode	Green = 'Select' / Yellow = 'Fault' / Red = 'Voice Alarm'

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	-10°C to +55°C (Operating and Storage)
Humidity Range.....	0% to 93% Non-condensing
Ingress Protection.....	IP30

Dimensions and Weight

Dimensions (H x W x D)	(Excluding gooseneck)
MPS10	52mm x 288mm x 200mm
MPS20, MPS30; MPS40; MPS50	Add 110mm Width for every 10 Buttons
Standard Gooseneck length	300mm
Weight.....	
MPS10	1.2kg
MPS20, MPS30; MPS40; MPS50	Add 0.2kg for every 10 Buttons



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Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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

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Tel: 01282 717171 Fax: 01282 717273 Web: www.protec.co.uk Email: sales@protec.co.uk