MPS01-MPS50

- EN54 COMPLIANT INDICATORS AND CONTROLS
- 0, 10, 20, 30, 40, OR 50 SELECTION BUTTONS
- LIVE, STORE-AND-FORWARD, AND RECORDED BROADCASTS
- LOUDSPEAKER WITH PA ZONE LISTEN-IN FUNCTION
- BACKGROUND MUSIC INPUT AND CONTROL
- WALL MOUNT AND FIST MICROPHONE OPTIONS
- HEADSET SUPPORT
- VOICE OVER IP & ANALOGUE

OVERVIEW

The MPS01, 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 MPS10/20/30/40/50 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 bar-graph which displays the microphone signal level.

The MPS range can be connected directly to either one or two ASL audio routers using analogue audio and a serial link. There is also an RJ45 Ethernet IP interface with Power over Ethernet for connection to ASL IP PA/VA systems, and for use with VIPA enabled PC workstations. All interconnecting cabling and the microphone capsule are 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 speak-now indicators.

The microphone, and all interconnect cables and the gooseneck microphone are replaceable to simplify maintenance.

The MPS microphone range can be used freestanding on a desk as standard, or can be permanently mounted with the optional mounting bracket. This bracket gives options to mount the microphone flat on a wall, built onto consoles or fixed on desks.

The MPS can be purchased with a fist microphone replacement for the standard gooseneck if required. This is particularly useful if the microphone is console or wall mounted.

Inputs1 and 2 of VIPEDIA-12 support All Call Hardware Bypass Operation. The operation of microphones on these inputs continues in an all-call-only mode in the event of VIPEDIA-12 processor failure or if there is a fault in the DBB connection between units. Hardware bypass operation is supported in DBB and AB system architectures and does not operate over Base-IP or ASL Secure Loop.

ANALOGUE INTERFACES

Single Interface

The standard connection method uses the Router 1 Microphone Port connected direct to a single ASL audio router.

Dual Interface / Single Routers

If the MPS is used with a single audio router, then both the Router 1 and Router 2 Microphone Ports can be used, in order to provide dual redundant cabling between the MPS microphone and the router.

Dual Interface / Multiple Routers

If the MPS is used with a PA/VA system which has two or more VIPEDIA-12, then both the Router 1 and Router 2 Microphone Ports can be used, one connected to each ASL Audio Router.

This option is supported across DBB, Base-IP, ASL-Secure Loop and AB architectures. Hardware bypass is only operational across DBB or AB architectures in multi-router systems.

Dual Interface - Paging & Local Music

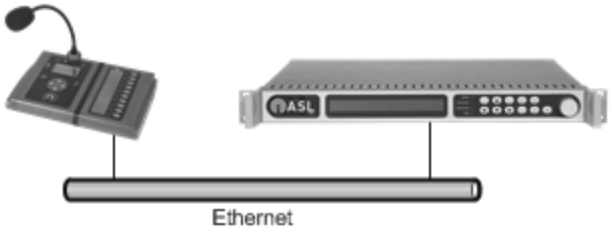
If the MPS is used with a local music source connected into its rear mounted 3.5mm audio input socket, then both the Router 1 and Router 2 Microphone Ports can be used, one for the music feed and one for the microphone.

This will provide simultaneous operation of the microphone to make a broadcast to some PA zones while the music feed continues to be played into other PA zones

IP INTERFACES

VIPEDIA-12 IP Interface

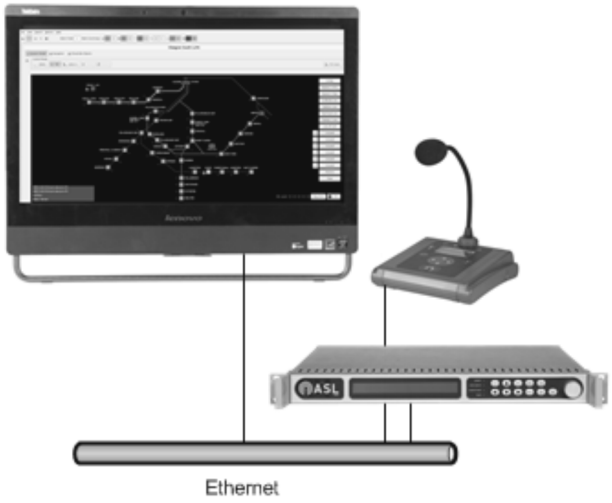
The standard VIPEDIA-12 microphone interface can also be configured to operate over Ethernet. Functionality is identical to an analogue interface MPS. IP microphone preannouncement chimes are configured to be played locally from the MPS microphone.



VIPA Interface

An IP connected MPS microphone can work as a workstation microphone with a VIPA equipped ASL or third party IP PA Control System.

Broadcasts from the MPS are normally controlled via the workstation GUI; however the MPS microphone can operate independently.



IP FALLBACK MODE

The analogue and IP interfaces described above, rely on a host device (usually a VIPEDIA-12 or VIPA software module) for operation.

If the host device becomes unavailable, it is possible to configure the MPS microphone to continue in limited operation ‘Fall-back Mode’, whereby it can address zones on multiple devices directly over an Ethernet network without the need for a host device.

In IP Fall-back mode, iPAMs can be addressed a single zone. VIPEDIA-12 zones can be addressed individually or as a group as necessary.

The MPS microphone normally operates as a slave device and is hosted by VIPEDIA-12 or by any of ASL's VIPA enabled products including VIPEDIA-NET, iPAM and the VIPA-HOST. The feature set available differs according to type of device which is hosting the microphone. See below:

VIPEDIA-12 Features

- Live Paging
- Store and Forward Paging
- Listen In
- Volume Control
- Fixed Route Button
- Zone Selectable Route Button
- Key Switch Priority
- Key Switch ANS
- Key Switch Emergency Type
- Key Switch Chime Type
- Key Switch Protected DVA
- EN54 Mandatory Indications
- Fault Clear

VIPA Features

- Live Paging
- Store and Forward Paging
- Listen In
- Control BGM in a VIPA System
- Fault Clear
- Fault Status
- Mute in a VIPA System

Fall-back IP Features

- Live Paging
- Store and Forward Paging

SPECIFICATION

Power Supply

Input Voltage.....18-40 V DC or PoE 42-57V DC
Current Consumption @ 24V (nom.- sounder & LEDs off)
MPS01 .....90mA
MPS10 .....95mA
MPS20 .....100mA
Each additional MPX10.....5mA
Current Consumption @ 24V (max. - sounder & LEDs on)
MPS01 .....165mA
MPS10 .....220mA
MPS20 .....275mA
Each additional MPX10.....55mA

Analogue ASL PAVA System Connection

Audio Output..... Dual Analogue / 0dBu nominal / 220R
Hardware Bypass Interface.....2 x PTT & 2 x Speak Now
Listen In Input .....Single Analogue

IP ASL PAVA System Connection (Not EN54 Compliant)

Connection..... 1 x 100BASE- T Ethernet (RJ45)
Audio Format ..... ASL PMC Compliant VoIP
Listen In Input .....Single ASL PMC VoIP

Additional Connectivity

Music Input.....1 x 3.5mm jack balanced / unbalanced stereo
Output (Speakers, Headset)..... 1 x 3.5 mm jack unbalanced
Contact Input (Ext. PTT).....1 x 3.5 mm jack
Contact Output (Speak Now)1 x 3.5 mm jack (open-collector)

Mechanical

Dimensions (H x W x D mm)
MPS01 ..... 58 x 175 x 200 (excluding gooseneck)
MPS10 ..... 58 x 285 x 200 (excluding gooseneck)
MPS20 ..... 58 x 395 x 200 (excluding gooseneck)
Each additional MPX10 ..... +110mm W
Weight
MPS01 .....1.0kg
MPS10 .....1.2kg
MPS20 .....1.4kg
Each additional MPX10 .....+0.2kg

Environmental

Temperature (Storage)..... -20 °C to +55 °C
Temperature (Operation)..... -10 °C to +55 °C
Humidity Range.....0% to 95% non-condensing
IP Rating IP30

CE

This equipment is designed and manufactured to conform to the following EU Directives:
Electromagnetic Compatibility (EMC)): 2014/30/EU
Low Voltage: 2014/35/EU
Restriction of Hazardous Substances (RoHS): 2011/65/EU

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Assessed to ISO 9001

LPCB Cert No: C1043