

EM S 01-EM S50



- WALL MOUNT FIST MICROPHONE
- 0, 10, 20 OR 50 SELECTION BUTTONS
- EN54 COMPLIANT INDICATORS AND CONTROLS
- FULLY MONITORED
- HARDWARE BYPASS FALLBACK OPERATION
- DUAL REDUNDANT OUTPUTS FOR A & B ROUTERS
- ADDITIONAL VOICE OVER IP INTERFACE, WITH POE RJ45

OVERVIEW

The EMS01, EMS10, EMS20 and EMS50 Emergency Microphone Stations are EN54 compatible emergency microphones which provide live and pre-recorded message broadcast. The EMS01 is an all call version, with no additional buttons. The EMS10 provides 10 button selection capability whilst the EMS20 provides 20 buttons. The EMS50 is formed from an EMS20 together with an additional 30 button EMX30 expansion unit. All microphones also provide EN54 compliant emergency functions and all EN54 mandatory indicators and controls.

The microphones are housed in a lockable wall-mounting box and feature a graphic LCD display together with indicators for 'Power', 'Voice Alarm', 'System Fault', 'Fault' and 'Speak Now'. The LCD display provides remote access to the list of active faults in the PA/VA system, while the EN54 mandated control keys enable navigation through the fault list, and also provide remote fault acceptance and clearance.

Multiple PA/VA system interfaces and can be connected directly to either one or two ASL audio routers, enabling multiple options for system redundancy. If configured, the microphone will operate in an All-Call hardware bypass fallback mode in the event of processor failure within the host Voice Alarm Router. There is also a non-EN54 RJ45 Ethernet IP interface with Power over Ethernet capability for VoIP connections to ASL IP based PA/VA systems. All interconnect cabling and the microphone capsule is continuously monitored for open and short circuits.

The optional EMX30 expansion module allows up to 30 additional buttons to be connected to the main EMS unit. The EMS base unit with EMX30 can be ordered as the EMS50



Top, bottom and rear cable entry points are provided by means of 'knock-outs' in the enclosure, while the field connections are provided by means of a set of terminals on the inside rear panel of the back box. The EMS10, EMS20 and EMS50 are compatible with the whole range of ASL Voice Alarm and Public Address systems, and are designed to comply with EN54-16, ISO 7240-16 and BS5839-8.

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 EMS 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 EMS microphone and the router.



Dual Interface / Multiple Routers

If the EMS 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.

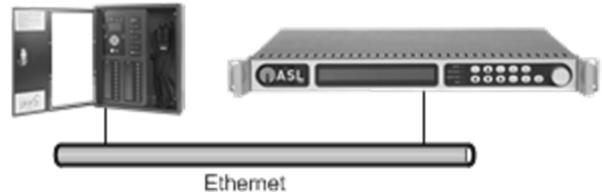
This option is supported across DBB, Base-IP, ASL-Secure Loop and AB architectures. Hardware bypass is only operational across DBB or AB architectures in multi-router systems.



IP INTERFACES

VIPEDIA-12 IP Interface

The standard VIPEDIA-12 microphone interface can also be configured to operate over Ethernet. In this case, the EMS is configured against a real VIPEDIA-12 analogue inputs. Functionality is identical to an analogue interface EMS. IP microphone preannouncement chimes are configured to be played locally from the EMS microphone.



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 EMS 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 in groups as necessary.

FEATURES

The EMS microphone normally operates as a slave device hosted by VIPEDIA-12. It can be configured to act in IP Fall-back mode if communications with the VIPEDIA-12 host is lost. The feature set available in each of these applications is different. Please see below:

VIPEDIA-12 Features

- Live Paging
- Store and Forward Paging
- Volume Control
- Fixed Route Button
- Zone Selectable Route Button
- EN54 Mandatory Indications
- EN54 Fault Reporting
- Fault Clear

Fall-back IP Features

- Live Paging
- Store and Forward Paging

SPECIFICATION

Power Supply

Input Voltage.....	Dual 18 to 48 V DC
Current Consumption @ 24V (nom. - sounder & LEDs off)	
EMS01	90mA
EMS10	95mA
EMS20	100mA
EMS50	115mA
Current Consumption @ 24V (max. - sounder & LEDs on)	
EMS01	165mA
EMS10	220mA
EMS20	275mA
EMS50	440

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

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

Mechanical

Dimensions (H x W x D mm)	
EMS01/10/20	402.4 x 344 x 95mm
EMS50 (EMS20 + EMX30)	660.8 x 344 x 95mm
Weight	
EMS01	5.8kg
EMS10	6.0kg
EMS20	6.2kg
EMX30	2.9kg
EMS50	9.1kg

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



This equipment is designed and manufactured to conform to the following EC standards:
 EMC: EN55103-1/E1, EN55103-2/E5, EN50121-4, ENV50204
 Safety: EN60065

Manufacturer

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Assessed to ISO 9001
 LPCB Cert No: C1043