EF-MPS
Desktop microphone range

EF-MPS desktop microphone stations

EF-MPS01, EF-MPS10 & EF-MPX10
Desktop microphone components

EF-MPS01 - All call microphone (Analogue / IP)
EF-MPS10 - 10 button zonal microphone (Analogue / IP)
EF-MPS20 - 20 button zonal microphone (Analogue / IP)
EF-MPS30 - 30 button zonal microphone (Analogue / IP)
EF-MPS40 - 40 button zonal microphone (Analogue / IP)
EF-MPS50 - 50 button zonal microphone (Analogue / IP)

The EF-MPS range consists of powerful and flexible paging microphones which enable the user to provide live, store-and forward, and recorded message broadcasts into user selected zones. The range also provides EN54 compliant emergency functions and all EN54 mandatory indicators and controls.

Within the range, the EF-MPS10/20/30/40/50 units each consist of a EF-MPS01 sloping desk console with a flexible goose-neck paging microphone, graphic LCD display, and silent operation 'Touch to Talk' touch pad PTT button, together with one or more additional EF-MPX10 zone selection and control button modules. The number of additional buttons depends on the model, with the EF-MPS10 having 10 selectable buttons, and the EF-MPS50 having 50 selectable buttons.

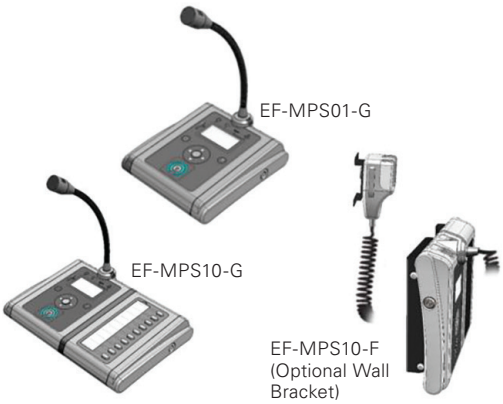
Zone selection is provided by the selectable buttons or by using the rotary selector and graphic LCD display. The on-board bar graph displays the microphone signal level.

The EF-MPS range can be connected directly to either one or two EFDAU2000 Wall Mounted Voice Alarm panels using analogue audio and a serial link. If required, there is also an RJ45 Ethernet IP interface with the option of a 'Power over Ethernet' connection to EFDAU2000 panels. All interconnecting cabling and the microphone capsule are continuously monitored.

As well as the main microphone goose-neck, 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.

Features and benefits

- EN54 compliant indicators and controls
- 0, 10, 20, 30, 40 or 50 selection buttons
- Live, store & forward and recorded broadcasts
- Background music input & control
- Voice over IP & analogue versions
- Loudspeaker with zonal "Listen-In" function
- Headset support
- Wall mount fist microphone option



Powering Business Worldwide

The EF-MPS microphone range can be used free standing 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 EF-MPS can be purchased as a variant with a fist microphone fitted instead of the standard goose-neck. This is particularly useful if the microphone is console or wall mounted.

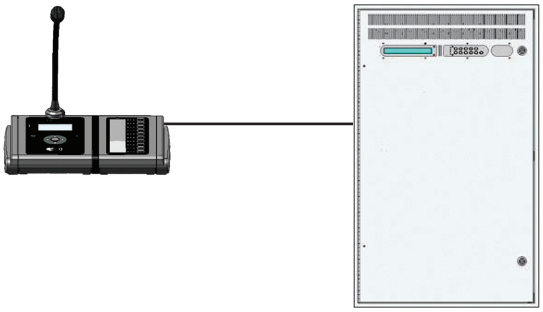
EFDAU2000 Wall Mounted Voice Alarm panels supports 'All Call' hardware bypass operation. The operation of EF-MPS microphones when coupled to input connections 1 and 2 allows the continuous availability of an 'All Call' broadcast in the event of EFDAU2000 panel processor failure.

Hardware bypass operation is supported in DBB and AB system architectures and does not operate over Base-IP or Secure Loop.

Specification

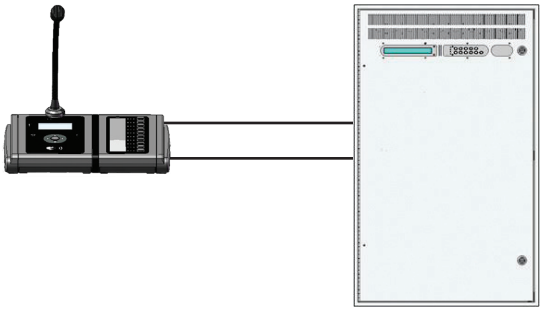
Analogue - standard connection to a single EFDAU2000

The standard connection method uses a single microphone port connected directly to a single EFDAU2000 panel.



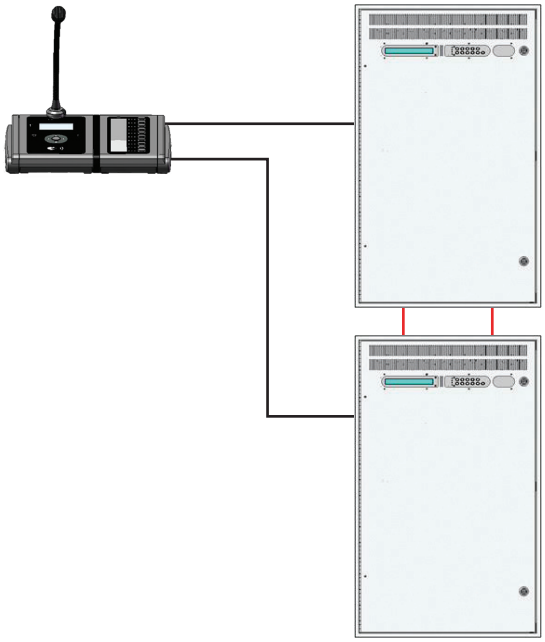
Analogue - dual redundant connection to a single EFDAU2000

If the microphone is used with a single EFDAU2000 panel, then two microphone ports can be used to make separate connections. This provides dual redundant cabling between the EF-MPS microphone and the EFDAU2000 panel.



Analogue - redundant connection to multiple EFDAU2000

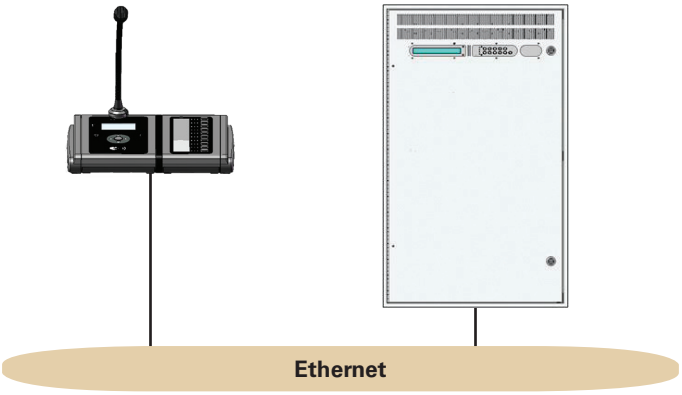
If the EF-MPS is used with a system which has two or more EFDAU2000 panels, then both EF-MPS microphone ports can be used, one connected to each EFDAU2000.
This option is supported across DBB, Base-IP, Secure Loop and AB architectures. Hardware bypass is only operational across DBB or AB architectures in multi-panel systems.



IP interfaces

EFDAU2000 IP interface

The standard EFDAU2000 microphone interface can also be configured to operate over Ethernet. Functionality is identical to an analogue standard EF-MPS connection.
IP microphone pre-announcement chimes are configured to be played locally from the EF-MPS microphone.



IP fallback mode

The analogue and IP interfaces described above, rely on the EFDAU2000 as the host device for full operation.

However, in the event the host were to become unavailable, it is possible to configure the EF-MPS microphone to continue in a 'Fall-back Mode', whereby it is still possible to perform the core function of an "All Call" broadcast, addressing multiple devices directly over an Ethernet network without the need for the host device.

In IP Fall-back mode, EFDAU2000s can be addressed individually or in groups as necessary.

Eaton product datasheet
Voice alarm system - EF-MPS microphones

EFDAU2000
Wall-mount voice alarm system

Technical specification

Power supply	
Input Voltage	Dual 18 to 48 V DC
Current Consumption @ 24V (nom.- sounder & LEDs off)	
EF-EMS01	90mA
EF-EMS10	95mA
EF-EMS20	100mA
EF-MPX10 (each unit)	115mA
Current Consumption @ 24V (max. - sounder & LEDs on)	
EF-EMS01	165mA
EF-EMS10	220mA
EF-EMS20	275mA
EF-MPX10 (each)	55mA
Analogue 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 system connection	
Connection	1 x 100BASE- T Ethernet (RJ45)
Audio Format	PMC Compliant VoIP
Listen In Input	Single PMC VoIP
Additional connectivity	
Music Input	1 x 3.5 mm 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)	
EF-MPS01	58 x 175 x 200 mm (excl. goose-neck)
EF-MPS10	58 x 285 x 200 mm (excl. goose-neck
EF-MPS20	58 x 395 x 200 mm (excl. goose-neck)
EF-MPX10 (each)	+ 110mm width
Weight	
EF-EMS01	1.0kg
EF-MPS10	1.2kg
EF-EMS20	1.4kg
EF-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

The EF-EMS microphone normally operates as a slave device hosted by EFDAU2000. It can be configured to act in IP Fall-back mode if communications with the EFDAU2000 host is lost. The feature set available in each of these applications is different. Please see below:

EFDAU2000 features

- Live paging
- Store and forward paging
- Listen in
- Volume control
- Fixed route button
- Key switch priority
- Zone selectable route button
- En54 mandatory indications
- Fault clear

Fall-back IP features

- Live paging
- Store and forward paging

Eaton order codes

EFDAU2000	1 x Wall mount voice alarm system with capacity for up to 10 amplifier cards
Desktop microphones	
EF-MPS01-G	Paging & Emergency Mic - 01 Button - Analogue
EF-MPS10-G	Paging & Emergency Mic - 10 Button - Analogue
EF-MPS01-G-IP	Paging & Emergency Mic - 01 Button - IP
EF-MPS10-G-IP	Paging & Emergency Mic - 10 Button - IP
EF-MPX10	10-button expansion module

Further information

Please refer to the EF-MPS Microphone Manual 25-14422-A for further details.

Eaton
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland
Eaton.eu

Publication No. 25-14401-A / CSSC-1329
Version 2, July 2018

Powering Business Worldwide