SEMCO maritime

SemSound IP

www.semcomaritime.com

Data sheet

MPS01SEM - MPS50SEM

Call Station

(Safe area)

SemSound IP

www.semcomaritime.com

- 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 and analogue

Overview

The MPS01SEM, MPS10SEM, MPS20SEM, MPS30SEM, MPS40SEM, and MPS50SEM 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 MPS10/20/30/40/50SEM units each consist of a MPS01SEM 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 MPX10SEM zone selection and control button modules. The number of additional buttons depends on the model, with the MPS10SEM having ten extra Select buttons, and the MPS50SEM 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 audio routers using analogue audio and a serial link. There is also an RJ45 Ethernet IP interface with Power over Ethernet for connection to IP PAGA systems. All interconnecting cabling and the microphone capsule are continuously monitored.

As well as the main microphone gooseneck, there are 3.5 mm 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.

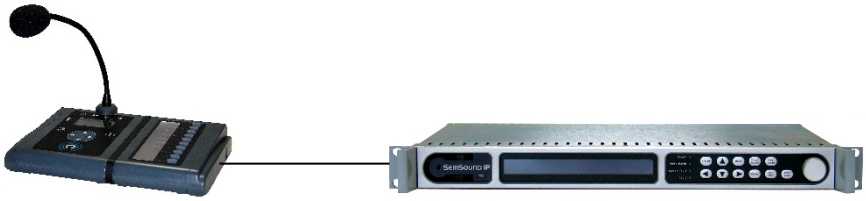
The MPS can be purchased with a fist microphone replacement for the standard gooseneck if required. This is particularly useful if the microphone is console or wall mounted.

Inputs1 and 2 of VIPEDIA-12SEM 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-12SEM 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 Secure Loop.

Analogue interfaces

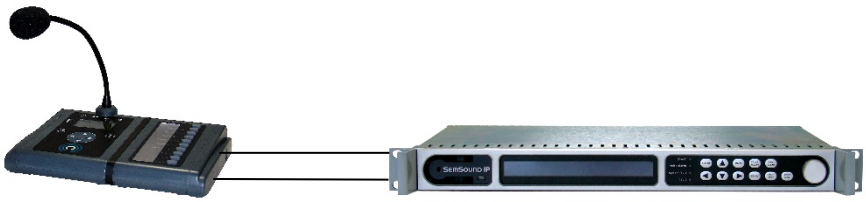
Single Interface

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



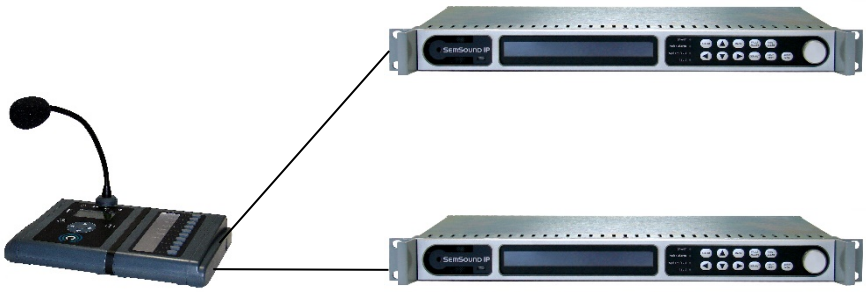
Dual Interface / Single Routers

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 redundant cabling between the MPS microphone and the router.



Dual Interface / Multiple Routers

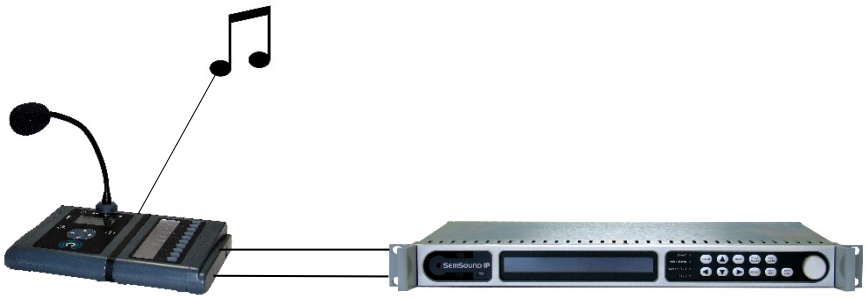
If the MPS is used with a PAGA system which has two or more VIPEDIA-12SEM, then both the Router 1 and Router 2 Microphone Ports can be used, one connected to each Audio Router.
This option is supported across DBB, Base-IP, Secure Loop and AB architectures. Hardware bypass is only operational across DBB or AB architectures in multi- router systems.



Dual Interface - Paging and 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-12SEM IP Interface

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

IP Fallback mode

The analogue and IP interfaces described above, rely on a host device (a VIPEDIA-12SEM) 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.

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

VIPEDIA-12SEM 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

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)
MPS01SEM 90mA
MPS10SEM 95mA
MPS20SEM 100mA
Each additional MPX10SEM 5mA
Current Consumption @ 24V (max. - sounder & LEDs on)
MPS01SEM 165mA
MPS10SEM 220mA
MPS20SEM 275mA
Each additional MPX10SEM 55mA

Analogue PAGA 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 PAGA 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 3.5mm 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)
MPS01SEM ..... 58 x 175 x 200 (excluding gooseneck)
MPS10SEM ..... 58 x 285 x 200 (excluding gooseneck)
MPS20SEM ..... 58 x 395 x 200 (excluding gooseneck)
Each additional MPX10SEM ..... +110mm W

Weight

MPS01SEM 1.0kg
MPS10SEM 1.2kg
MPS20SEM 1.4kg
Each additional MPX10SEM ..... +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

Ordering Information

MPS**01**SEM - 8066222 *(+ 1 pcs. 8066226*)*
MPS**10**SEM - 8066222 + 1 pcs. 8066225 *(+ 1 pcs. 8066226* + 1 pcs. 8066228)*
MPS**20**SEM - 8066222 + 2 pcs. 8066225 *(+ 1 pcs. 8066226* + 2 pcs. 8066228)*
MPS**30**SEM - 8066222 + 3 pcs. 8066225 *(+ 1 pcs. 8066226* + 3 pcs. 8066228)*
MPS**40**SEM - 8066222 + 4 pcs. 8066225 *(+ 1 pcs. 8066226* + 4 pcs. 8066228)*
MPS**50**SEM - 8066222 + 5 pcs. 8066225 *(+ 1 pcs. 8066226* + 5 pcs. 8066228)*

**Note: Only order for wallmounting*

CE

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

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580
semco@semcomaritime.com

For further technical information please contact:

SemSound@semcomaritime.com

Data sheet

V2000SEM

Modular power amplifier

8066227

SemSound IP

www.semcomaritime.com

- Up to 2000W in 2U / 19″ housing
- EN54-16 compliant
- Transformerless 150 and 500W modules
- DC / impedance / loop / addressable loudspeaker monitoring
- Integrated EN54-4 battery charger (24Vdc model only)
- Very high efficiency and low Standby current
- Hot swappable amplifiers
- Internal and external Standby options

Overview

The V2000SEM Amplifier Mainframe is EN54-16 compliant and provides the housing, control and power supplies for up to ten D Series power amplifier modules in a 2U enclosure. Two D Series amplifier module types are available, with a maximum power rating of 500W (D500SEM) or 150W (D150SEM). These are lightweight transformerless amplifier modules whose output power is configurable in software from 25W up to their maximum rating. The ability to configure the output power on each module enables optimum assignment of amplifier power within the overall capacity of mainframe and hence a compact system design.

Amplifier Interface

The LSZDCSEM amplifier interfaces provide each amplifier module with 0dB analogue audio inputs, dual isolatable A and B loudspeaker circuit and either DC, Impedance, Loop Return or addressable loudspeaker line surveillance. Standby amplification can be provided internally within the V2000SEM, or by means of an external standby amplifier. Use of an internal standby amplifier requires no standby wiring to be made. Use of an external standby amplifier requires the optional V2000-STBYSEM module.

Power Supply

The mainframe includes a mains power supply, designed to operate on 230V, 50Hz / 60Hz AC mains supply, while battery backup is provided by means of a 48V DC power input or optional 24V DC.

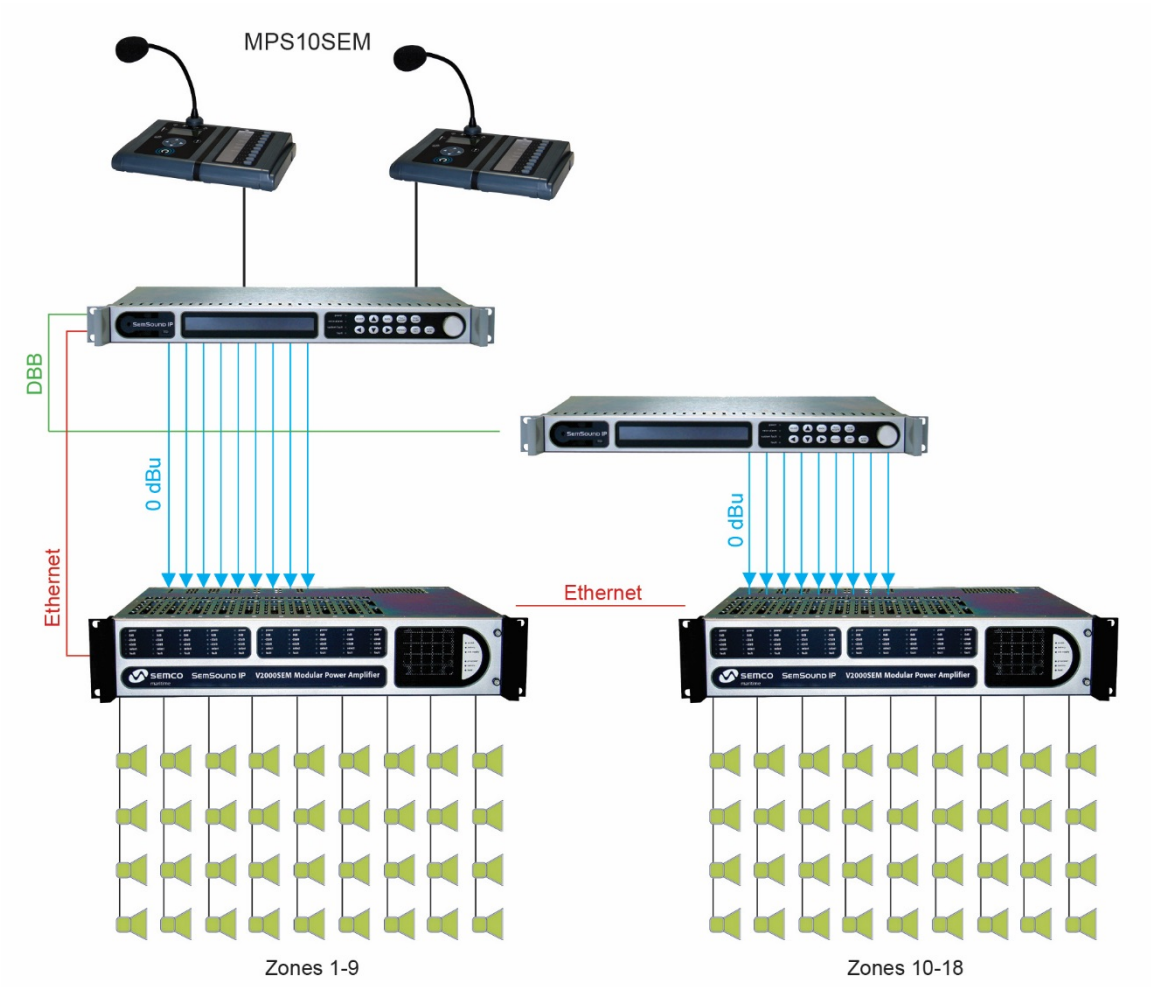
Configurable Amplifier Powers

The configurable output power capability of the D500SEM and D150SEM amplifier modules enables very flexible use of the mainframe, with reduced mainframe count, less quiescent power requirement, and improved environmental performance compared with traditional amplifier designs. Example applications are:

- Ten off 150W amplifier = 1 x V2000SEM mainframe and 10 x D150SEM amplifier module
- Quad 500W amplifier = 1 x V2000SEM mainframe and 4 x D500SEM amplifier module
- Mix-and-match options such as four 50W zones, two 300W zones, and two 500W zone all driven from a single V2000 mainframe, including a standby amplifier.

Example

The example below shows an 18 zone system using a VIPEDIA-24 DBB group The interface between VIPEDIA-12SEM and V2000SEM is 0dBu analogue, with one channel to each amplifier's LSZDCSEM card. Control and communications (status reporting) uses Ethernet. 100V Loudspeaker circuits connect to the LSZDCSEM interface card associated with each amplifier. Each frame includes a single internal standby amplifier, automatically switched if a fault is detected in an active module.
Please note: diagrammatic representation only. For clarity, not all system components are shown - please refer to the System Design Guidelines for detailed information.



Please note:
Diagrammatic representation only. For clarity, not all system components are shown - please refer to the SemSound IP Design Guide – MB-SEMCO-0004 for detailed information.

SPECIFICATION

Power

AC Supply Voltage ..... 230V AC (+25% / -16%)
AC Supply Frequency ..... 50-60 Hz
DC Supply ..... 43-62 V (optional 21-28 V)
Quiescent Current 40mA
Inrush Current (max) 21A
Power - see below ..... @ 2000W load, 10no D500 amplifiers, Tone Input Signal

Power consumption of V2000SEM Amplifier:

1. **230VAC**
   Input voltage = 230 VAC
   Max. current = 16.7 Arms
   Power Factor = 0.7
   Worst case (highest consumption) is achieved with a continuous 1kHz tone fully loaded 2kW amplifier.

   With 1kHz tone 2000W load the current consumption at 230V is 16.7A rms,
   Therefore, the power consumption is 230 V x 16.7 A = 3.84 kVA
   3.84 kVA x 0.7 = **2.69 kW**

2. **24 VDC**
   Input voltage = 24 VDC
   Max. current = 121 A (worst case with external cabling & breaker drops)
   Worst case (highest consumption) is achieved with a continuous 1kHz tone fully loaded 2kW amplifier.

   With 1kHz tone 2000W load the current consumption at 24 VDC is 121 A,
   Therefore, the power consumption is 24 V x 121 A = 2.9 kVA = **2.9 kW**

3. **48 VDC**
   Input voltage = 48 VDC
   Max. current = 52 A (worst case with external cabling & breaker drops)
   Worst case (highest consumption) is achieved with a continuous 1kHz tone fully loaded 2kW amplifier.

   With 1kHz tone 2000W load the current consumption at 48 VDC is 52 A,
   Therefore, the power consumption is 48 V x 52 A = 2.5 kVA = **2.5 kW**

Efficiency figures:

Amplifier efficiency = 83%
Main PSU efficiency = 90%
Overall efficiency = **74%**

Environmental

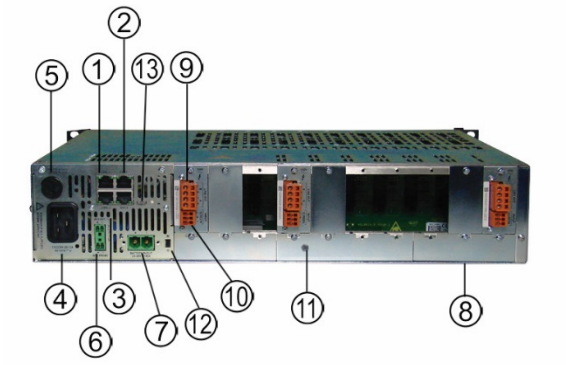
Operating ..... -10 °C to +55 °C
Storage ..... -20 °C to +55 °C
Humidity Range ..... 0% to 93% non-condensing
Ingress Protection IP20

Mechanical

Dimensions (H x W x D) ..... 86 mm x 436 mm x 425 mm
Mounting ..... 19″ rack mounting (2U)
Finish ..... Low Smoke / Zero Halogen
Colour ..... Silver and Black
Weight (frame only) ..... 7.7 kg

Front and Rear Panel

1. Amplifier Indication LEDs (per amplifier)
2. Mainframe Indication LEDs (per frame)



1. RS485 & Audio Monitor
2. Dual Ethernet Ports
3. Status LED
4. Mains Power Input
5. Mains Fuse
6. DC PSU Output & Battery Temperature Sensor
7. DC Power Input & Battery Charger Output
8. V2000-STBYSEM Slot (Not fitted)
9. 100V A & B Loudspeaker Amplifier Output
10. Amplifier Audio Input
11. Earth Lift Switch

CE

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

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580
semco@semcomaritime.com

For further technical information please contact:

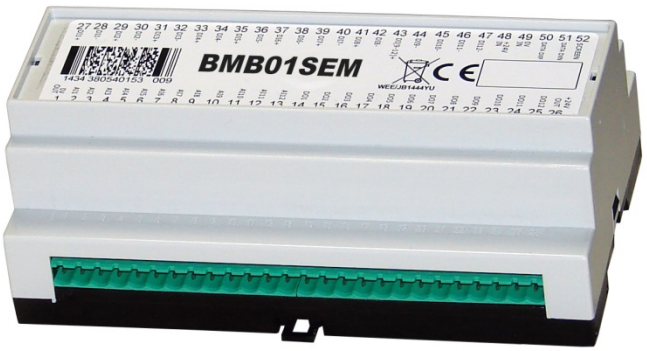
SemSound@semcomaritime.com

Data sheet

BMB01SEM

Remote I/O Expansion unit

8066221



SemSound IP

www.semcomaritime.com

The BMB01SEM is an input and output control port (I/O) expander for VIPEDIA-12SEM.
The VIPEDIA-12SEM is able to support the connection of up to 9 remote BMB01SEM units, connected by a multi-drop RS485 serial interface.

Each BMB01SEM unit provides the following inputs and outputs to extend the control and interfacing capability of the router:

- 12 analogue inputs
- 12 digital (opto-isolated) inputs
- 12 digital (open collector) outputs

These input and output control ports may be used for functions such as: Program Selection, Volume Control, Fault Input, Routing Control, Routing Reset Input, External Fault Input, and Busy Output.
The BMB01SEM is housed in a DIN-rail mountable enclosure suitable for use either within a central equipment rack or remotely, at distances of up to 1km from the Router.

For further details, please refer to the BMB01SEM product manual, the VIPEDIA-12SEM manual, and the PA/GA System Design manual.

SPECIFICATION

Supply voltage range ..... 18 - 40V DC
Current consumption ..... 70 mA @ 24V DC supply
Open collector maximum rated current ..... 350 mA
Open collector maximum voltage 60V
Analogue input voltage range ..... 0 - 5V (nominal) 24V max without physical damage
Digital input voltage range ..... 12 - 48V

Dimensions and Weight

Dimensions (H x W x D) ..... 105 mm x 156 mm x 58 mm
Weight 300g

Environmental

Temperature (storage and operating) ..... -5 °C to +50 °C
Humidity range ..... 0% to 93% Non-condensing

CE

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

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580

For further technical information please contact:

SemSound@semcomaritime.com

Data sheet

D150SEM and D500SEM

Amplifier module

8066229, 8066230

SemSound IP

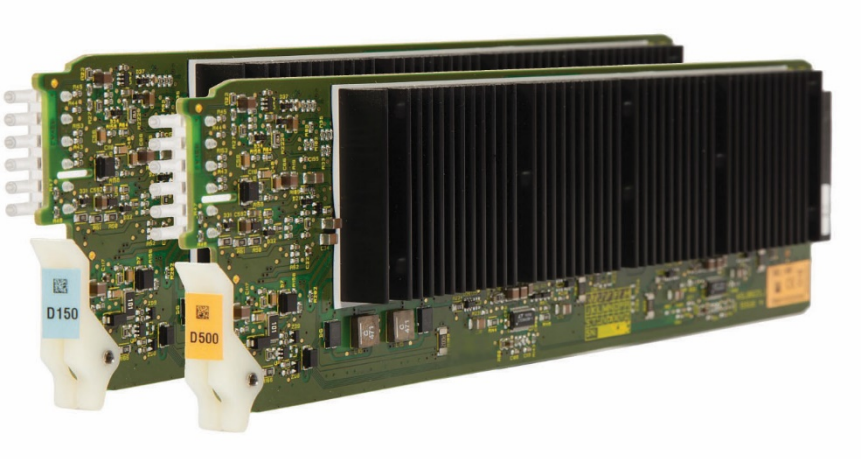
www.semcomaritime.com

- Class D Transformerless Amplifiers
- V2000SEM Amplifier mainframe compatible
- Software configurable maximum power
- Fault indication led per amplifier
- High efficiency and Low standby current
- 100 / 70 / 50 V output

Overview

D150SEM and D500SEM class D transformerless amplifiers provide 100, 70 or 50V audio output for distributed loudspeaker systems. The amplifiers are compatible with the V2000SEM amplifier mainframe and LSZDCSEM dual line surveillance interface module. The maximum output power is user configurable from 25W to 150W (D150SEM) and from 25W to 500W (D500SEM). Up to 10 D150SEM or D500SEM amplifiers modules can be housed within a single V2000SEM amplifier mainframe (a mix of both types is possible).

The configurable output power capability of the D500SEM and D150SEM amplifier modules enables very flexible use of the mainframe, with reduced mainframe count, lower quiescent power requirement, and improved environmental performance compared with traditional amplifier designs.



SPECIFICATION

Quiescent Current

Module..... 16mA

D150SEM Amplifier Modules (100V Output) 8066229

Amplification..... Transformer- less Class D
Power output @ 100V ..... 25W to 150W
Power output @ 70V 150W
Power output @ 50V 150W
Efficiency..... >=86%
Frequency response..... 100Hz to 20kHz +/- 3dB
THD ..... < 0.5%
Output Noise ..... <85dB below full output

D500SEM Amplifier Modules (100V Output) 8066230

Amplification..... Transformerless Class D
Power output @ 100V ..... 25W to 500W*
Power output @ 70V ..... 25W to 350W*
Power output @ 50V ..... 25W to 250W*
Efficiency..... >=83%
Frequency response..... 100Hz to 20kHz +/- 3dB
THD ..... < 0.5%
Output Noise ..... 85dB (A-weighted) below full output

*Specified output power can be delivered when the amplifier mainframe is being powered from either mains or 48V battery supplies (Optional 24V).

Environmental

Operating..... -10 °C to +55 °C
Storage..... -20 °C to +55 °C
Humidity Range..... 0% to 93% non -condensing
Ingress Protection ..... IP20 as part of V2000SEM

Mechanical

Module Weight 0.8kg

CE

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

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580
semco@semcomaritime.com

For further technical information please contact:

SemSound@semcomaritime.com

Data sheet

IEOL01SEM

Intelligent End Of Line

8076589

SemSound IP

www.semcomaritime.com

- Addressable loudspeaker circuit monitoring
- No external PSU required
- Ideal for retrofit
- Up to 10 devices per loudspeaker circuit
- Up to 1000m circuit length

Overview

Used in conjunction with the V2000SEM and LSZDCSEM, the IEOL01SEM enables loudspeaker circuit integrity to be monitored. The monitoring technique does not require DC blocking capacitors in the loudspeakers and is therefore ideal for retrofit applications.

The device is connected to and powered directly from the loudspeaker circuit by an inaudible tone generated by a D series amplifier. No external power supply is required.

For simple 'end-of-line' monitoring, a single device can be connected to the at the end of the loudspeaker circuit. Where more detailed information on the location of a loudspeaker circuit fault is required, up to 10 devices can be connected along a single circuit or to individual spurs. Each device is given a unique address ID using a rotary switch on the PCB. Loss of connection to any single device through an open circuit fault will be reported by the PAVA system identifying the ID of the specific device lost.

The IEOL01SEM can be used on loudspeaker circuits up to 1000 m in length. In order to prevent a fire from causing a short circuit and subsequent loss of audio broadcast, each IEOL01SEM connects to the loudspeaker wiring by a ceramic terminal block and thermal fuse.

Specification

Operation

Max per loudspeaker circuit 10
Max loudspeaker circuit length.....1000 m

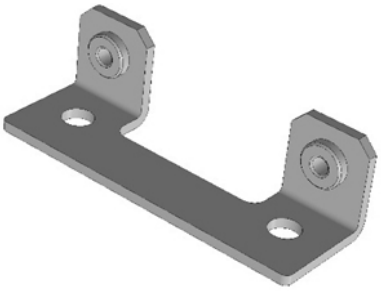
Environmental

Operating..... -TBC to +55 °C
Storage..... -TBC to +55 °C
Humidity Range..... 0% to 93% non-condensing

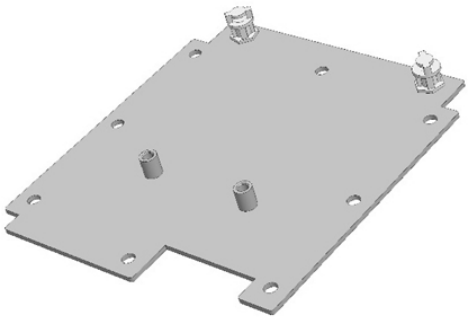
Mechanical

Dimensions..... 82 mm x 71.5 mm x 20 mm
Weight ..... 0.07 kg
IP Rating..... Dependent on chosen enclosure

Mounting options

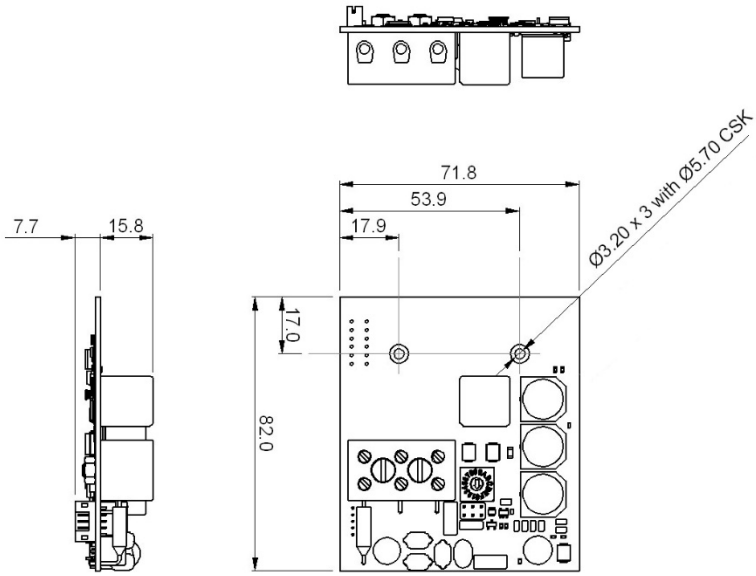


IEL01-MNT-01
For Pepperl & Fuchs ATEX enclosure.



IEL01-MNT-02
For Fibox enclosure part number MNX PC 125/75 HG

Diagram



CE

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

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580

For further technical information please contact:

SemSound@semcomaritime.com

SemSound IP

Call Station MPS10Ex

Gooseneck microphone 8075128

Fist microphone 8075129

approved

SemSound IP

www.semcomaritime.com

EN54 compliant indicators and controls

- 10 selection buttons
- Live, store-and-forward, and recorded broadcasts
- Wall mount and fist microphone options
- Voice over IP and analogue

Overview

The SemSound IP - Call Station are powerful 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 SemSound IP - Call station MPS10Ex unit each consist of a potted unit in an Ex 'e' enclosure with one or more intrinsically safe interface boards attached for keyboard expansion. The first intrinsically safe interface board provides connection for microphone, status LEDs, Push to talk (PTT) button and 10 selection buttons with associated status LEDs. The intrinsically safe interface boards are prepared for daisy chaining to a maximum of 50 selection buttons but not Ex certified for more than 10 selection buttons.

In order not to jeopardize the Ex safety there must be installed safety fuse(s) for 24V power in non hazardous area.

PA zone selection is provided by the Select buttons. There is also a VU bar-graph which displays the microphone signal level.

The SemSound IP Call station MPS10Ex can be connected directly to either one or two SemSound IP audio routers using analogue audio and a serial link.
There is also an Ethernet IP interface for connection to SemSound IP PAGA systems. All interconnecting cabling and the microphone capsule are continuously monitored.

The fist microphone, and the gooseneck microphone are replaceable to simplify maintenance.

The SemSound IP - Call station MPS10Ex are made for fixed installation.

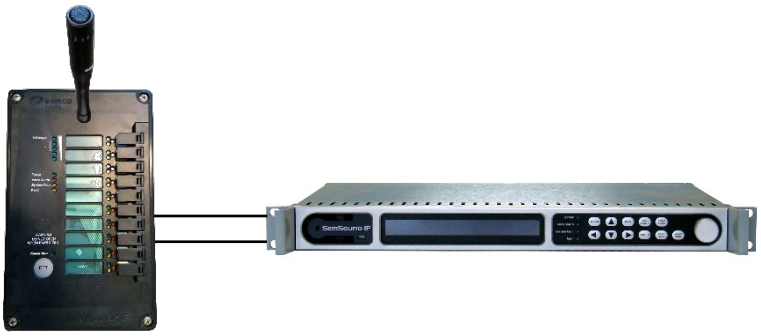
The SemSound IP Call station MPS10Ex can be purchased with either fist microphone or gooseneck microphone.

Analogue Interfaces

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

Dual Interface / Single Routers

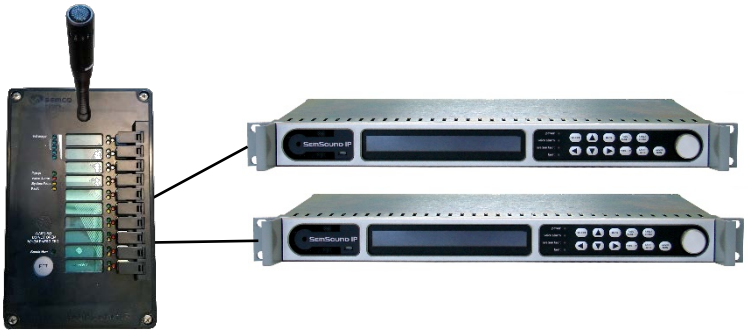
If the MPS10Ex is used with a single audio router, then both the Router 1 and Router 2 Microphone Ports can be used, in order to provide dual redundant cabling between the MPS10Ex microphone and the router.



Dual Interface / Multiple Routers

If the MPS10Ex is used with a PAGA system which has two or more VIPEDIA-12SEM, then both the Router 1 and Router 2 Microphone Ports can be used, one connected to each SemSound IP Audio Router.

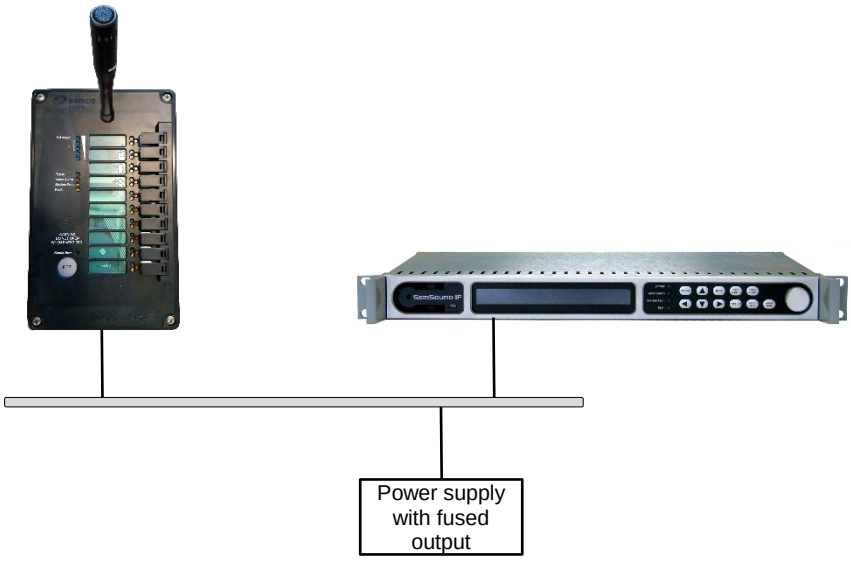
This option is supported across DBB, Base-IP, SemSound IP Secure Loop and AB architectures. Hardware bypass is only operational across DBB or AB architectures in multirouter systems.



IP Interfaces

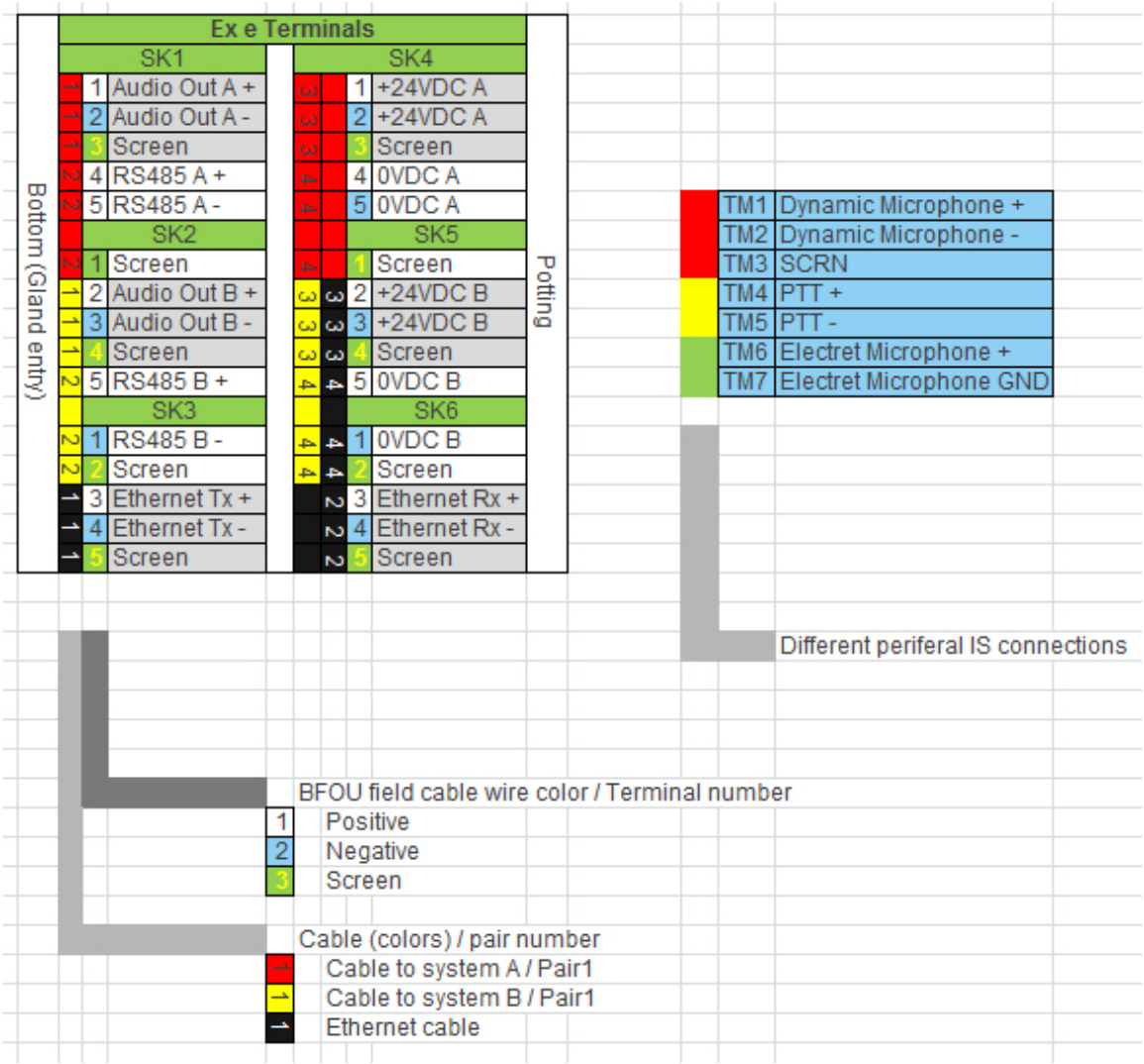
VIPEDIA-12SEM IP Interface

The standard VIPEDIA-12SEM microphone interface can also be configured to operate over Ethernet. In this case, the MPS10Ex is configured against a real VIPEDIA-12SEM analogue inputs. Functionality is identical to an ana-logue interface MPS10Ex. IP microphone preannouncement chimes are configured to be played locally from the MPS10Ex microphone.



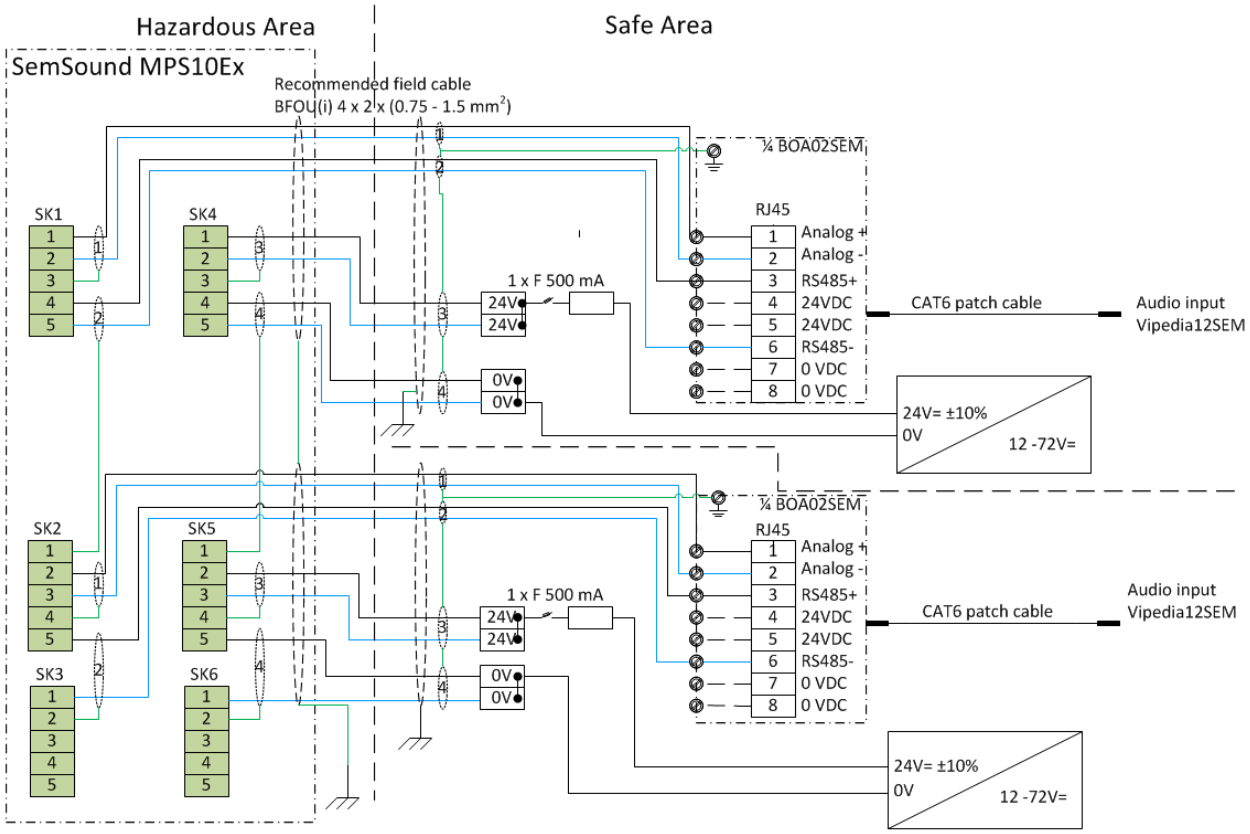
Termination of field cables

Recommended field cable:
BFOU (I) 4x2x(0.75 mm^2 - 1.5 mm^2)



Termination of field cables

Interconnection diagram – redundant configuration



Note: 24VDC supply to be connected via F550mA fuse – DO NOT exceed 28VDC !

TECHNICAL SPECIFICATION

Power Supply

Input Voltage ..... Dual 15 to 24 V DC

Current Consumption @ 24V (nom.- LEDs off)
MPS10Ex 95mA

Current Consumption @ 24V (max. - LEDs on)
MPS10Ex 111mA

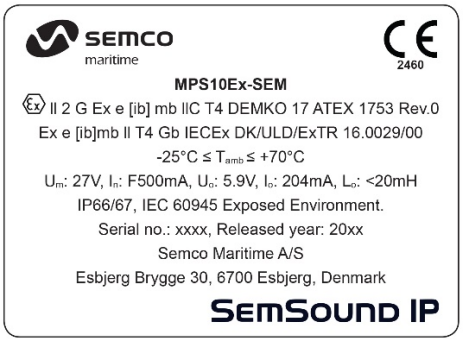
Analogue SemSound IP PAGA System Connection

Audio Output..... Dual Analogue / 0dBu nominal / 220R

IP PAGA System Connection

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

Ex approvals:



Mechanical

Dimensions (H x W x D mm)..... 160 x 260 x 101 (excl. microphone)
Weight ..... 5.0 kg

Environmental

Weight ..... 5.0 kg
Temperature (Storage) ..... -25 °C to +70 °C
Temperature (Operation) ..... -25 °C to +70 °C
Humidity Range ..... 0% to 100%
IP Rating..... IP66

Ordering Information

MPS10Ex

Gooseneck microphone	**8075128**
Fist microphone	**8075129**

CE

This equipment is designed and manufactured to conform to the following EC standards:
EMC: EN55103-1/E1, EN55103-2/E5, EN50121-4, ENV50204, IEC60945/DNV GL
Safety: EN60065

Head office
Semco Maritime A/S
Esbjerg Brygge 30
6700 Esbjerg
Denmark

Tel. No.: +45 79166666
Fax No.: +45 75156580
semco@semcomaritime.com
www.semcomaritime.com

For further technical information please contact:

SemSound@semcomaritime.com