

RS-802-IM Two-Channel Beltpack

Industrial and Marine Analog Partyline Systems

Linking
People
Together



RS-802-IM

Key Features

- Two-channel analog beltpack
- IP53 environmental rating for weather-proofing
- Sealed for salt-mist and humidity
- Asbestos-free in accordance with SOLAS Regulation II-1/3-5.2
- Marine Certification compliant with DNVGL-CG-0339 (2016)
- XLR-6 line connectors for 2-Channel & Program Audio
- Visual LED indication on top of keypad
- Tactile buttons for Call and Talk
- Recessed rotary control for Volume
- Concealed, programmable DIP Switches
- Low operating current for more beltpack daisy-chaining
- Fully compatible with current and previous models of Clear-Com analog partyline systems
- Rugged and strong construction
- “Clear-Com Sound” for intelligible audio

Industrial and Marine products for use in harsh environments, certified in accordance with DNVL-CG-0339, with Compass Safety Distance conformity, and asbestos-free.

Description

The RS-802-IM is a two-channel analog beltpack that can carry power and audio through the XLR-6 line connector. Each beltpack combines high headroom, low-noise audio and shaped frequency contour (the “Clear-Com Sound”) to deliver clear audio.

Operation

The RS-802-IM features LEDs on the top of the beltpack for visual indication of incoming and outgoing call signaling. A mic preamp enables intelligible voice communication for every volume level. Recessed rotary volume control, Talk and Call keys guard against accidental activation. The RS-802-IM has low operating current to allow for more beltpacks in a daisy-chain. Additionally, a thumbwheel level adjustment is available for Program In.

DIP Switches and LEDs

A concealed DIP switch panel on the back of the beltpack allows the capability to select audio and key options quickly and easily. DIP switches can control features such as switching between electret or dynamic headsets, setting a minimum or off level for headphone output, adjusting volume settings, enabling or disabling LED signals, having Call on Talk or latching the Talk key for Channel A, having Call on Talk or latching the Talk key for Channel B, Channel B Minimum Volume setting. A green LED indicates that the beltpack is powered and a green LED on the Talk key indicates that the microphone is active (Talk is latched). An amber LED indicates a Call signal on the channel.

Improved Design

The RS-802-IM is designed in a rugged, reliable, IP53 water, salt-mist, and dust resistant casing. A belt clip allows a variety of ways to use the beltpack; users can clip it to a belt or lanyard, or users can mount the belt clip to a wall, pole or desk for fixed installations.

Compatibility

The RS-802-IM is compatible with all Clear-Com Encore® partyline products, as well as the PL-Pro line and other partyline systems via Encore interfaces.

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Technical Specifications

dBu is an absolute measurement. 0dBu is referenced to 0.775 volts RMS

Microphone Pre-Amplifier

Mic to Line (without limiter acting)

Frequency Response: 280 - 15kHz \pm 3dB

Microphone output to line - Audio Level (-9dBm Electret input): -9dBm

Microphone output to line - Distortion: <0.1%

Microphone output to line - Signal to Noise: >65dB

Clear-Com Sound: Yes

Headphone Amplifier

Frequency Response - Line to Headphone: 150 - 20kHz \pm 3dB

Headphone input from line - Audio Level (-9dBm Electret input): 7dBm

Headphone input from line - Distortion: <0.5%

Headphone input from line - Signal to Noise: >50dB

Earphone to Mic - Crosstalk: >80dB

Sidetone - Adjustment Range (-80db mic input): >45dB

Keypad Indicators

Power: Green LED

Talk A and B: Green LED

Call A and B: Orange LED

Connectors

Intercom Line: (2) 6-pin XLR-M-F

Switchcraft pin layout*

Pin 1: Common

Pin 2: PL Power (+28V DC)

Pin 3: PL Ch-B

Pin 4: PL Ch-A

Pin 5: Program Audio +

Pin 6: Program Audio -

Each intercom channel should be an individually shielded pair

Headset: 4-pin XLR-M

Pin 1: Mic - (Mic Common)

Pin 2: Mic +

Pin 3: Spkr-

Pin 4: Spkr+ (and 0.5*VCC DC, supply between Pin 4 and Pin 1)

Power

Input Voltage Range: 12-30V DC

Input Current (Idle): \leq 25mA

Input Current (Max): \leq 40mA

Call Voltage

16.5V DC

Minimum Voltage Needed: 3.3V

Environmental

32° - 140°F (0° - 60°C)

Relative Humidity: 0 - 96%, non-condensing

Vibration Frequency Range: 2 - 13.2Hz

Amplitude: 1.0mm

Peak Value Frequency Range: 13.2 - 100Hz

Acceleration Amplitude: 0.7g

EMC: DNVGL-CG-0339 - Class A

Enclosure: Salt-mist IP53

Dimensions

3.4 x 4.5 x 1.7in (HxWxD)

(86 x 114 x 43mm)

Weight

10.5oz (0.30kg)

*IMPORTANT: XLR Connector Compatibility

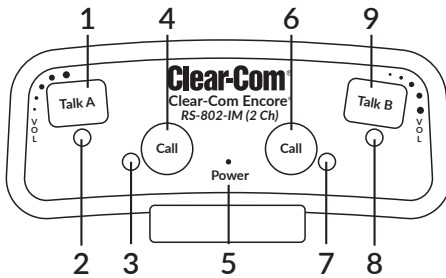
Clear-Com products featuring 6-pin XLR

connectors utilize the Switchcraft XLR pin layout. Compatible connectors are available from manufacturers, such as Switchcraft and Neutrik, yet compatibility must be verified. Neutrik 6-pin XLR connectors must include "S" in the part number to ensure compatibility.

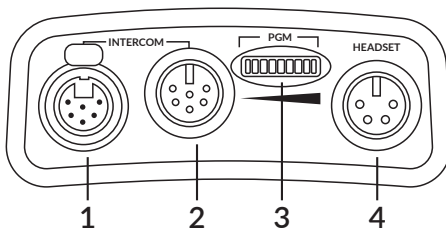
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RS-802-IM Top



RS-802-IM Bottom



Legend

Top

1. Ch A Talk Key
2. Ch A Talk Key LED
3. Ch A Call Key LED
4. Ch A Call Key
5. Power LED
6. Ch B Call Key
7. Ch B Call Key LED
8. Ch B Talk Key LED
9. Ch B Talk Key

Bottom

10. Intercom Line In
11. Intercom Line Out
12. Program In Thumbwheel
13. Headset Connector

Order Code

RS-802-IM

Certifications and Compliance

This device complies with part 15 of the FCC Rules.

This device complies with European Union CE Mark:

- Electromagnetic Compatibility Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- RoHS Directive 2011/65/EU
- Standards: EN 55032, EN 55024, EN 60950-1, EN 50581

This device complies with Maritime Certification:

- Conformity with DNVGL-CG-0339 Edition November 2016
- Asbestos-free in accordance with SOLAS Regulation II-1/3-5.2
- Compass Safety Distance conformity per DNVGL-CG-0339 and IEC 60945



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