RS-703 Two-Channel Beltpack

Analog Partyline Intercom Systems

Linking People Together

RS-703

Key Features and Benefits

- Two-channel analog beltpack
- XLR-3 line connectors with 2-Channel connectivity
- Visual LED indication on top of key-pad for Power (green), Call Signal (amber), and Talk Latch (green)
- Tactile buttons for Call and Talk
- Recessed rotary control for Volume with end stops for 270° rotation range
- Concealed, programmable DIP Switches for Latch Talk on Channels A/B, Talk with Call, LEDs Off, Mic Gain, Mic Type, HP Level Off, Min Volume, RTS/Clear-Com and Call-on Talk
- Program Audio thumbwheel adjustment
- 3.5mm Program Audio Input jack
- RTS-TW compatible
- Fully compatible with current and previous models of Clear-Com analog partyline systems
- Low operating current for more beltpack daisy-chaining.
- Rugged and strong construction
- "Clear-Com Sound" for intelligible audio

Encore™ is a 2-wire analog partyline system with intuitive plug-and-play design and superior "Clear-Com Sound" audio clarity.

Description

The RS-703 is a two-channel analog beltpack that can carry power and audio through the XLR-3 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-703 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-702 has low operating current to allow for more beltpacks in a daisy-chain. Additionally, a thumbwheel level adjustment is available for Program In, as well as a 3.5mm TRS jack for Program Input.

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, and RTS/Clear-Com Select (RS-703 only). 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-703 is designed in a rugged and reliable casing with a retro-design connection to the previous RS-500 Series beltpacks. A belt clip allows a variety of ways to use the belt-pack; 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-703 is compatible with all Encore partyline products, as well as the PL-Pro line and other TW partyline systems via Encore interfaces.

Clear-Com®
AN HME COMPANY

Technical Specifications

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

Microphone Pre-Amplifier
Mic to Line (without limiter acting)
Frequency Response: 280 – 15k Hz ± 3dB
Microphone output to line – Audio Level (-50dBm 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 – 20k Hz ± 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) 3-pin XLR–M–F Ch. 1 2-Wire

Intercom Channel
Pin 1: Common
Pin 2: PL Power (+28VDC)/PL Ch-A
Pin 3: PL Ch-B
Headset: 4-pin XLR–M
Headset Connector
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)
Program Audio Input: 3.5mm TRS jack

Power
Input Voltage Range: 12-30 VDC
Input Current (Idle): <=25mA
Input Current (Max): <=40mA

Call Voltage
16.5 VDC
Minimum Voltage Needed: 3.3V

Environmental
32˚F - 158˚F (0˚C - 70˚C)

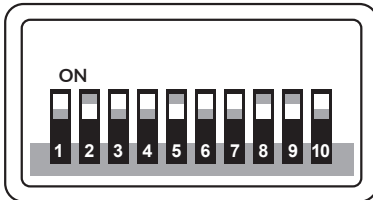### Dimensions
3.4 x 4.5 x 1.7 in (HxWxD)
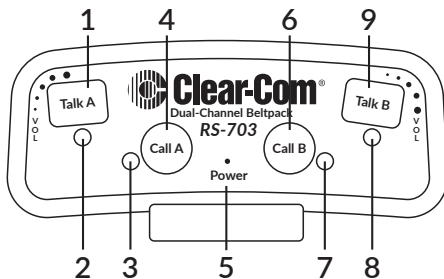(86 x 114 x 43 mm)

Weight
10.8 oz (0.31 kg)

RS-703 DIP Switches

RS-703 Dip Switches

1. Mic Type
   ON = Dynamic (default)
   OFF = Electret
2. Headset Output Level
   ON = High
   OFF = Low (default)
3. Min Volume – Channel A
   ON = Mute at min level (default)
   OFF = Not silent at min level
4. LEDs On/Off
   ON = LEDs normal operation (default)
   OFF = All LEDs dark
5. Call-on Talk Enable – Channel A
   ON = Call occurs when talk on
   OFF = No call when talk on (default)
6. Talk Latch Enable – Channel A
   ON = Latch enabled (default)
   OFF = Latch disabled
7. Min Volume – Channel B
   ON = Silent at min level (default)
   OFF = Not silent at min level
8. RTS/Clear-Com Select (RS-703 only)
   ON = RTS compatible (use if connecting to a standard RTS line)
   OFF = Clear-Com compatible (default)
9. Call-on Talk Enable – Channel B
   ON = Call occurs when talk on
   OFF = No call when talk on (default)
10. Talk Latch Enable – Channel B
    ON = Latch enabled (default)
    OFF = latch disabled

RS-703 Top

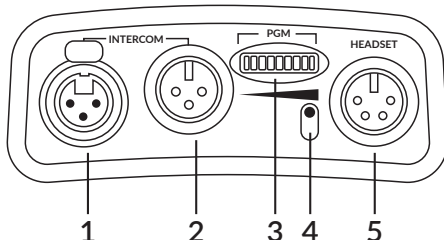## RS-703 Bottom

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

1. Intercom Line In
2. Intercom Line Out
3. Program In Thumbwheel
4. Program Input 3.5mm TRS jack
5. Headset Connector

Order Code

RS-703