


RS-703 Two-Channel TW Beltpack

Analog Partyline Intercom Systems



Linking
People
Together



RS-703

Key Features and Benefits

- 2-channel analog TW beltpack
- XLR-3 line connectors with 2-Channel TW connectivity
- Visual LED indication on top of keypad: 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-TW/Clear-Com and Call-on Talk
- Program Audio thumbwheel adjustment
- 3.5mm Program Audio Input jack
- RTS-TW compatible
- Fully compatible with Clear-Com analog partyline systems when using the TWC-703 adaptor
- Low operating current for more beltpack daisy-chaining.
- Rugged and strong construction
- “Clear-Com Sound” for intelligible audio

Clear-Com Encore® is an intuitive, robust, plug-and-play partyline intercom system with high-quality “Clear-Com Sound”.

Description

The RS-703 is a two-channel analog TW beltpack that can carry power and audio through the XLR-3 line connector using TW partyline. 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-703 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 balanced mono 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-TW/Clear-Com Select. 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 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-703 is compatible with any TW capable partyline intercom systems or peripherals. This beltpack requires the use of TWC-703 TW adaptor when used with a Clear-Com partyline intercom system. The RS-703 can also be directly connected FreeSpeak® Basestations, Arcadia™ Central Station and LQ® IP Interfaces with 2-wire ports configured for RTS-TW use.

RS-703 Two-Channel TW Beltpack

Analog Partyline Intercom Systems

Technical Specifications

dBu is an absolute measurement. OdBu 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 – 20kHz ± 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

Pin 1: Common

Pin 2: Power (+28V DC)/PL Ch-A

Pin 3: PL Ch-B

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)

Program Audio Input: 3.5mm TRS

Mini-Jack. Balanced Mono Input

Power

Input Voltage Range: 12-30V DC

Input Current (Idle): <=25mA

Input Current (Max): <=40mA

Call Voltage

16.5V DC

Minimum Voltage Needed: 3.3V

Environmental

32° - 158°F (0° - 70°C)

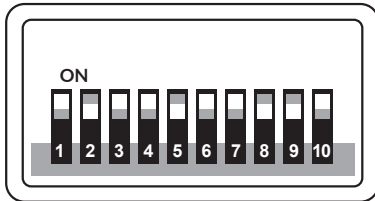
Dimensions

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

Weight

10.8oz (0.31kg)

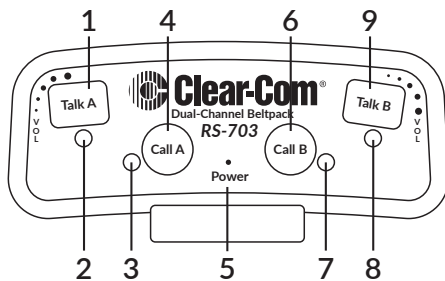
RS-703 DIP Switches



RS-703 Dip Switches

- | | | |
|---|---|---|
| <ol style="list-style-type: none"> Mic Type
ON = Dynamic (default)
OFF = Electret Headset Output Level
ON = High
OFF = Low (default) Min Volume – Channel A
ON = Mute at min level (default)
OFF = Not silent at min level LEDs On/Off
ON = LEDs normal operation (default) | <p>OFF = All LEDs dark</p> <ol style="list-style-type: none"> Call-on Talk Enable – Channel A
ON = Call occurs when talk on
OFF = No call when talk on (default) Talk Latch Enable – Channel A
ON = Latch enabled (default)
OFF = Latch disabled Min Volume – Channel B
ON = Silent at min level (default)
OFF = Not silent at min level | <ol style="list-style-type: none"> RTS/Clear-Com Select (RS-703 only)
ON = RTS compatible (use if connecting to a standard RTS line)
OFF = Clear-Com compatible (default) Call-on Talk Enable – Channel B
ON = Call occurs when talk on
OFF = No call when talk on (default) Talk Latch Enable – Channel B
ON = Latch enabled (default)
OFF = Latch disabled |
|---|---|---|

RS-703 Top



Legend

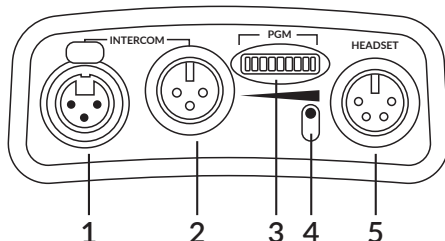
Top

- Ch A Talk Key
- Ch A Talk Key LED
- Ch A Call Key LED
- Ch A Call Key
- Power LED
- Ch B Call Key
- Ch B Call Key LED
- Ch B Talk Key LED
- Ch B Talk Key

Order Code

RS-703

RS-703 Bottom



Bottom

- Intercom Line In
- Intercom Line Out
- Program In Thumbwheel
- Program Input 3.5mm TRS jack
- Headset Connector



[www.clearcom.com/
encore-knowledge-center/](http://www.clearcom.com/encore-knowledge-center/)