

Technical Data Sheet

TECPRO BELTPACKS

- 27-511** BP511 Single Circuit Beltpack (XLR-3 Connectors)
- 27-523** BP523 Dual Circuit Beltpack (XLR-3 Connectors)
- 27-525** BP525 Dual Circuit Beltpack (Monaural, XLR-5 Connectors)
- 27-531** BP531 Single Circuit Beltpack with vibration alert (XLR-3 Connectors)
- 27-543** BP543 Dual Circuit Beltpack with vibration alert (monaural, XLR-3 Connectors)
- 27-545** BP545 Dual Circuit Beltpack with vibration alert (monaural, XLR-5 Connectors)



BP511
&
BP531



BP523
&
BP543



BP525
&
BP545

CONNECTING THE BELTPACK TO THE SYSTEM

BP511 and BP531

This single circuit beltpack is connected to the system via the available male and female XLR 3 pin connectors. By convention the female connector is used as the input and the male connector as the output enabling the cabling to be 'looped through' to the next station if required.

BP523 and BP543

This dual circuit beltpack is connected to the system via two 3 pin, female, XLR type connectors. They are marked Circuit I and Circuit II. There is no 'loop through' capability.

BP525 and BP545

This dual circuit beltpack is connected to the system via male and female XLR 5 pin connectors. By convention the female connector is used as the input and the male connector as the output enabling the wiring to be 'looped through' to the next station if required.

BASIC OPERATION

Headset operation

A Tecpro compatible headset, wired as in diagram 1, should be plugged into the 4 pin XLR connector on the rear of the station. Located on the front panel, the "MIC" button activates the headset mic to speak to the system when depressed. The thumb operated volume control can be adjusted for a comfortable listen level.

Side-tone adjustment

The level of user's voice in the headset is called 'side-tone'. The required level can be set by adjusting the side-tone control on the front panel with a small screwdriver.

Signal light operation

The CALL pushbutton flashes a light in all outstations connected to the circuit. It is used to attract the attention of a user that has the headset removed or volume level turned right down.

ClearCom Compatibility

Tecpro stations are completely compatible with Clear-Com stations. Any Tecpro stations added to Clearcom will function as their Clear-Com equivalents. However, Clear-Com stations have a lower bridging impedance and will degrade a Tecpro system slightly due to a reduction in side-tone stability incurred when a Clear-Com outstation is used in a Tecpro communications system.

DETAILED OPERATION OF CONTROLS

The front panel houses the mic select and call buttons, headphone volume and side-tone adjust control(s).

Microphone Select

Press the "MIC" button briefly and it will illuminate green. This action switches on the mic circuitry and allows the operation of other functions.

To switch off the mic circuitry press the "MIC" button briefly again. The lamp within the button will extinguish.

Holding the "MIC" button continuously keeps the mic circuitry alive for the duration of the press.

Call send

Ensure that a "MIC" circuit has been selected and that its associated lamp is illuminated.

Press the "CALL" button briefly. This will cause the lamps on all other beltacks on the same circuit to flash for approximately one second. The button will also illuminate red. A tone of similar duration will sound in the headphones.

Remote Mic Kill send

Ensure mic circuits have been de-selected.

Depress the "CALL" button briefly three times. It will illuminate red for approximately two seconds.

During this time, briefly press the appropriate "MIC" button to switch off all mics on that circuit.

PROGRAMMABLE OPTIONS

All settings revert to default when power is removed.

Default settings

1. Call alert tone ON/OFF – ON
2. Bright or dim green LEDs – bright
3. Vibration mode ON/OFF (Duplicates Call LED and will respond to a Call signal when the Call LED is suppressed in 'dim' mode) – default is ON.
4. Disable or enable Mic 1 (Mic 2) – ENABLED

PREFERENCE SETTINGS

Alert Tone

Switch off mic 1 and 2, hold down "Call" button for 3 seconds - red call LED flashes slowly for 2 sec.

To select alert tone off, while call LED is flashing press mic 1 - call alert tone on for 0.1 sec.

To select alert tone on, while call LED is flashing press mic 1 - call alert tone on for 1 sec.

When the call alert mode is programmed ON, 50mS of call alert tone acknowledges that the call switch is pressed at the start of the 3 sec 'hold down'. This button press acknowledgement is then suppressed until the unit deselected set up mode and reverts to normal operation.

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Switch off mic 1 and 2, hold down "Call" button for 3 seconds - red call LED flashes slowly for 2 sec.

To select alert tone off, while call LED is flashing press mic 1 - call alert tone on for 0.1 sec.

To select alert tone on, while call LED is flashing press mic 1 - call alert tone on for 1 sec.

When the call alert mode is programmed ON, 50mS of call alert tone acknowledges that the call switch is pressed at the start of the 3 sec 'hold down'. This button press acknowledgement is then suppressed until the unit deselected set up mode and reverts to normal operation.

LED Brightness

Switch off mic 1 and 2, hold down "Call" button for 3 seconds - red call LED flashes slowly for 2 sec.

To select dim LEDs, while call LED is flashing, press mic 2 - call LEDs on dim for 1 sec.

To select bright LEDs, while call LED is flashing, press mic 2 - call LEDs on bright for 1 sec.

Vibration ON/OFF

Switch off mic 1 and 2, hold down call for 3 sec - red call LED flashes slowly for 2 sec.

To select vibration off, while call LED is flashing, press mic 1 and mic 2 – unit vibrates for 1 sec.

To select vibration on, while call LED is flashing, press mic 1 and mic 2 - unit vibrates for 1 sec.

Mic Disable

Switch off mic 1 and 2, hold down call for 10 sec - red call

LED flash rate changes to quick flash after 10 sec.

To disable Mic 1, while call LED is flashing, press mic 1 - Mic 1 LED flashes once.

To enable Mic 1, while call LED is flashing, press mic 1 - Mic 1 LED flashes 3 times.

To disable Mic 2, while call LED is flashing, press mic 2 - Mic 2 LED flashes once.

To enable Mic 2, while call LED is flashing, press mic 2 - Mic 2 LED flashes 3 times.

MISCELLANEOUS

Circuit Enable/Disable

BP523 and BP543

If only one circuit is connected, then only this circuit is active. On the unused circuit, the line amplifier is disabled and the Mic LED does not light if the Mic key is pressed.

BP325 and BP545

With XLR-5 connectors, a given circuit is only active if its +24 volt line is powered.

Mic Disable

If no headset is connected, the Mic functions will be disabled. This will prevent immediate feedback if the headset is re-connected with the volume control on maximum but the headset not being worn.

WIRING CONVENTIONS

XLR 3 pin BP511

- Pin 1 Earth/screen
- Pin 2 +24VDC
- Pin 3 Audio

XLR 5 pin BP523 and BP525

- Pin 1 Earth/screen
- Pin 2 +24VDC
- Pin 3 Audio, circuit 1
- Pin 4 +24VDC
- Pin 5 Audio, circuit 2

HEADSET CONNECTORS

XLR 4 pin

- Pin 1 Microphone Earth/screen
- Pin 2 Microphone signal
- Pin 3 Earphones Earth/screen
- Pin 4 Earphones signal

DIAGRAM 1

4-pin XLR wiring for headsets with an impedance of more than 100ohms per ear.

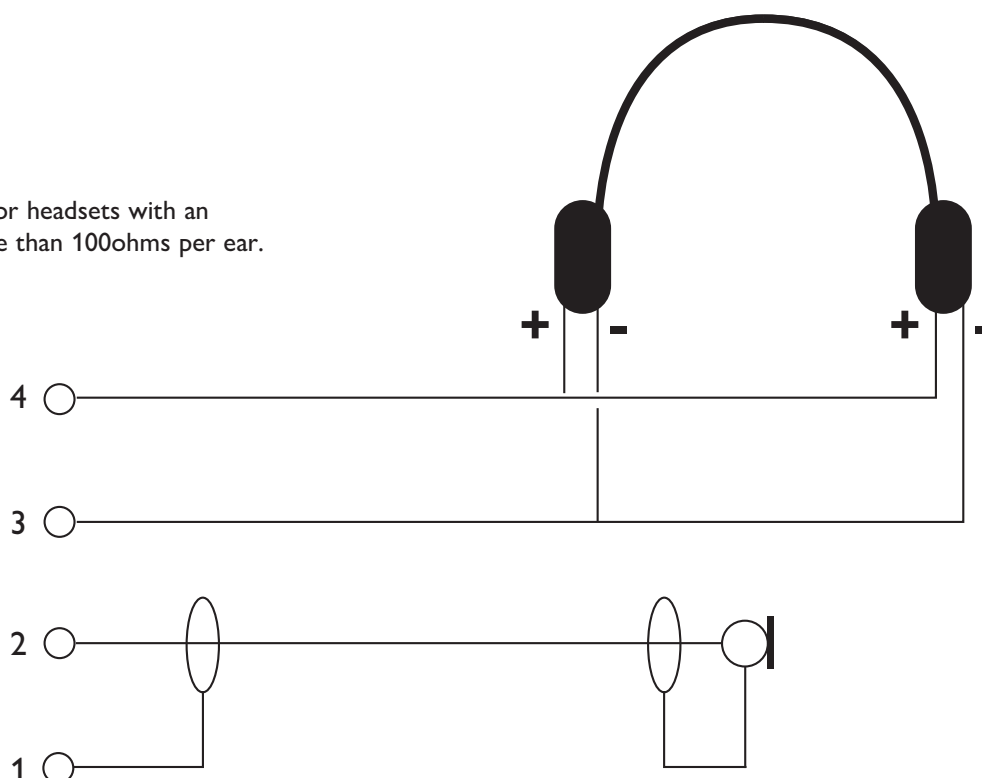
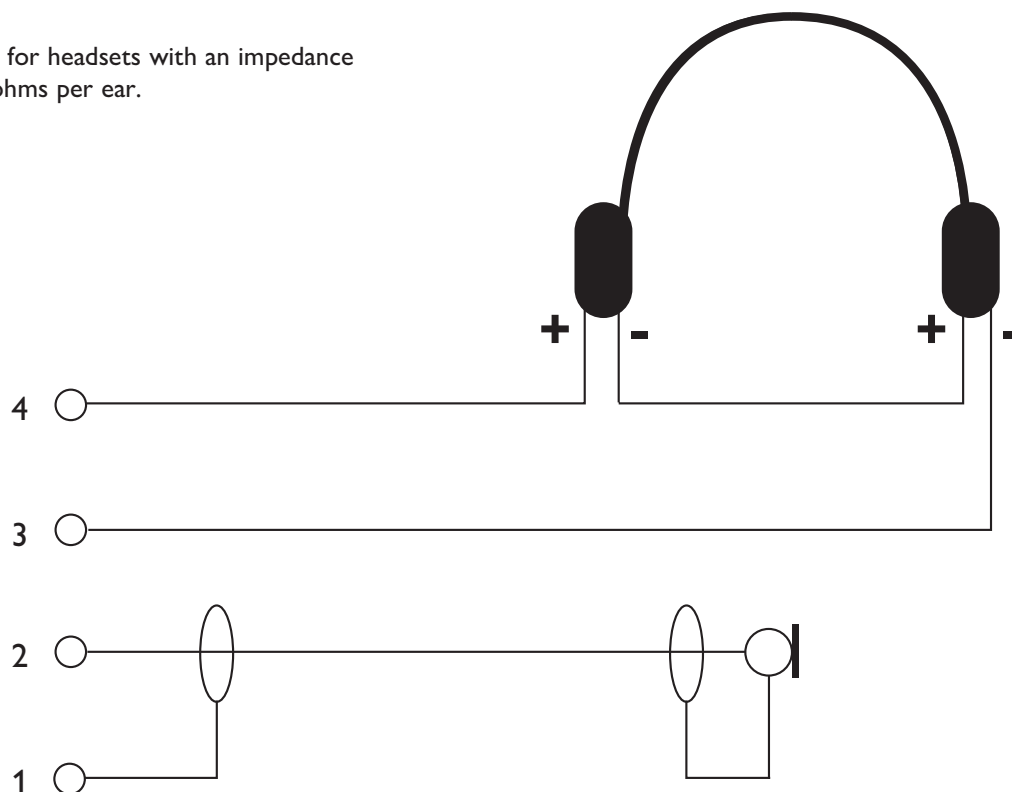


DIAGRAM 2

4-pin XLR wiring for headsets with an impedance of less than 100ohms per ear.



TECHNICAL SPECIFICATION

Power requirements

Supply voltage:	24 - 30 volts DC
Max current consumption:	40 mA in "Call" mode (all LEDs on)
With vibrate selected:	50mA
Headphone output:	8 ohm to 4Kohm headphones
Microphone input:	200 to 600 ohm dynamic microphones
Connectors:	BP511 XLR 3 pin male and female - loop through BP523 XLR 3 pin female, circuit A, circuit B BP525 XLR 5 pin male and female - loop through BP531 XLR 3 pin male and female - loop through BP543 XLR 3 pin female, circuit A, circuit B BP545 XLR 5 pin male and female - loop through Headset - XLR 4 pin male
Case material:	High impact ABS
Dimensions:	120mm (L) x 103mm (W) x 54mm (H)
Weight without vibration motor:	240g
Weight with vibration motor:	260g