FreeSpeak II O2 1.9GHz Beltpack

FreeSpeak II Wireless Solutions

Linking People Together

FreeSpeak II O2 1.9 GHz Beltpack

Key Features and Benefits

- Designed to work at atmospheric pressure up to 75 psi
- Typical indoor range 300ft (90m), outdoor range 800ft (240m)
- 1.9 and 2.4GHz beltpacks operate on a single system
- Up to 65 – 90 beltpacks on a single system
- Encoder Volume Swap between A&C and B&D
- "Listen Again" message replay
- Simple 2-channel partyline operation to 5-channel intercom on the same beltpack
- Over-the-air beltpack registration
- XLR-4M headset connector
- IP-53 rating for wet and dusty conditions
- Built-in flashlight
- Uses AA alkaline or rechargeable Nickel Metal Hydride batteries

FreeSpeak II is a high performance wireless solution operating in the 1.9 and 2.4GHz frequency bands designed for extensive communication in large-scale operations.

Description

The FSII O2 1.9GHz beltpack is specifically designed to work in Hyperbaric chambers safely, operating at atmospheric pressures of 5.1 atm, 517 kPa, or 75 psi with a change of +/- 26 psi per minute without damage.

Operation

The FSII-BP19-X4-O2 can connect to the FreeSpeak II base station or to Eclipse HX card frame matrices using the E-QUE-HX interface card. FSII-BP19-X4-O2 users can roam seamlessly between FSII-TCVR-19 or FSII-TCVR-IP-19 antennas over wide areas. The "Listen Again" feature allows users to replay earlier commands, eliminating the need to repeat communication or disturb productions. Volume Swap allows for independent level control on channels A, B, C, and D listens.

Increase System Size

The FSII-BP19-X4-O2 can be mixed with any other FSII beltpack on the same system, increasing the quantity of beltpack users in a single radio space. When using the FSII-TCVR-19 antennas, in the US, up to 25 1.9 GHz and 40 2.4 GHz beltpack users can operate on a single system, while the rest of the world can have up to 50 1.9 GHz and 40 2.4 GHz beltpack users in the same radio space. When using the FSII-TCVR-IP-19 antennas, in the US, up to 50 1.9 GHz beltpack users can operate on a single system, while EU countries can have up to 641.9 GHz beltpack users in the same radio space.

Durability

The FSII-BP19-X4-O2 is IP-53 rated for water and dust protection with special components to withstand depths of 125 ft (38 m). For better grip and protection, the beltpack has a rubberized over-mold to protect from the most rugged environments.

Battery

The FSII-BP24-X4-O2 beltpack does not support the AC60 battery like the FSII-BP19 and FSII-BP24 beltpacks. Because this beltpack is used in high-pressure environments, the FSII-BP19-X4-O2 will only support the use of three AA alkaline or rechargeable Nickel Metal Hydride batteries. Beltpack battery level settings will accommodate to the use of these batteries.

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Technical Specifications

Audio
Audio Bandwidth: 200Hz-7.5KHz
No. of Full-Duplex Audio Paths: Up to 5 with individual level control (2 dedicated rotaries, 3 with menu), 2 controls and a main volume
Mode of Operation: Full duplex on all routes
Level/Talk Controls: 4 pushbuttons, a reply button and 2 rotary controls
Enter/Answer-Back Button: 1

Radio
Frequency Spectrum: 1.88-1.93MHz for EU and US cellular auto roaming technology
Modulation: GFSK, TDMA frame 10ms Full and Long slot
Output power: (EU) 18-22dBm, (US) 18-20dBm
Range: Typical indoor range 300ft (90m), outdoor range 800ft (240m)
Battery: 3 AA alkaline or Nickel Metal Hydride
Battery Life: 9+ hours

Headset Connector: 4-pin male
Microphone Type: Electret and Dynamic, selectable in beltpack menu
Headset Limiter: Selectable from beltpack menu

Environmental
IP-53 water and dust resistance
Operating: 32°-125°F (0°-50°C)
Storage: 32°-150°F (0°-70°C)
Humidity: Between 20% and 90%, Non-Condensing
Atmospheric pressures of 5.1 atm or 75 psi
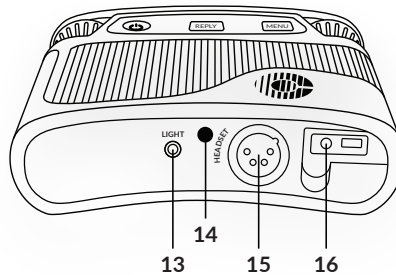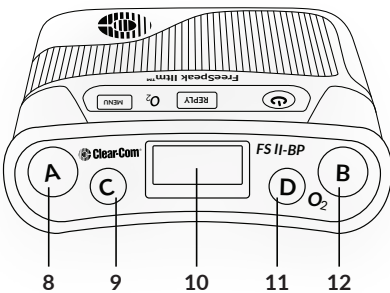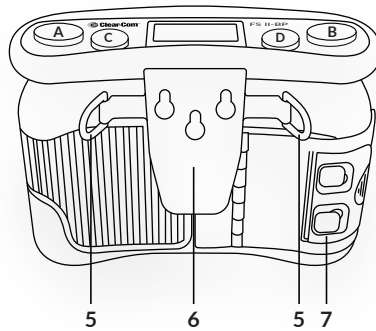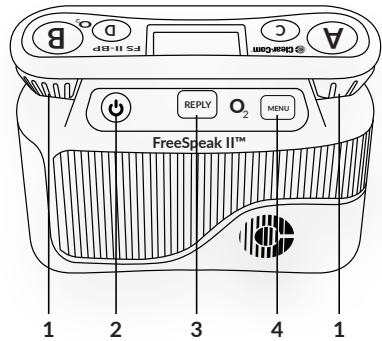
Dimensions
Tapered design at largest points
3.75 x 5 x 1.5 in (HxWxD)
(97 x 130 x 45mm)

Weight
9.0 oz (0.25 kg) including batteries

Legend

1. Volume Control
2. Power Button
3. Reply Button
4. Menu Button
5. Shoulder Strap Hook
6. Belt Clip
7. Battery Door
8. Channel A
9. Channel C
10. LCD
11. Channel D
12. Channel B
13. Flashlight
14. Flashlight Switch
15. Headset Connector
16. USB and Audio Jack Connectors

Order Codes

FSII-BP19-X4-O2-US: Beltpack with XLR-4M headset connector, approved for use in USA and Canada

FSII-BP19-X4-O2-EU: Beltpack with XLR-4M headset connector, approved for use in the EU

Notice About Specifications | While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

WARNING: Cancer and Reproductive Harm - **www.P85Warning.ca.gov**