

Voice Switch By-Pass System

VSBP



COMPLIANCES

FA-12000

PRODUCT APPLICATION

The Voice Switch By-Pass (VSBP) System provides Air Traffic Controllers (ATC) with emergency access to the VHF and UHF air-to-ground receivers and transmitters during a failure of the primary voice switching system. Each VSBP equipment shelf supports up to four jackboxes and provides push-to-talk signaling, antenna switching options, and interconnection to facility demarcation (including connection to the facility legal recorder and air-to-ground transmitters and receivers). Each equipment shelf can be configured to three circuit types: Type 1 enables one operator to communicate on one specific frequency, Type 2 enables one operator to communicate on two specific frequencies, and Type 3 enables two operators to communicate on one specific frequency.

PRODUCT HIGHLIGHTS

- Emergency Access to VHF and UHF Air-to-Ground Receivers/Transmitters
- Independent of the Primary Voice Switching System
- Standard 19 inch Rack-Mount
- Independent Uninterruptible Power Supply (UPS)

SPECIFICATIONS

TRANSMIT PATH

Frequency Response: 300 to 3000 Hz +/- 3 dB
Harmonic Distortion: 2.5% maximum
Interchannel Crosstalk: -50 dB below normal signal
Noise Level: -65 dB maximum

HEADSEAT RECEIVE AUDIO PATH:

Frequency Response: 300 to 3000 Hz +/- 3 dB
Harmonic Distortion: 2.5% maximum
Interchannel Crosstalk: -50 dB below normal signal
Noise Level: -45 dB maximum

EQUIPMENT

The Voice Switch By-Pass Equipment Rack consists of up to six VSBP equipment shelves and one Uninterruptible Power Supply (UPS). Each VSBP shelf contains:

- Power Supply (24 volts)
- Fuse Module
- Up to three Data Bridge Modules (1 per channel)
- Up to six Relay Modules (2 per channel)

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