

# Panel Mount FM Transceiver - P-2000



## FEATURES:

- Panel mount - single or dual band
- Color display, NVG option
- AES/DES-XL/DES-OFB encryption
- P-25 and Motorola trunking
- Embedded simulcast & relay functionality
- Maximum transmit range with 10 Watt transmit power on VHF & UHF bands
- VHF, UHF & 800 MHz
- Any combination of frequency bands noted below

## PRODUCT DESCRIPTION

The newest member of the Flexcomm family, the P-2000 digital/analog tactical FM radio, was designed to provide maximum communications capability for aircraft with limited space. In addition to the efficient panel-mounted design, the multi-band P-2000 features a brilliant color LCD display that highlights critical information in an easy to read format.

The P-2000 delivers P-25 functionality and interoperability on one or two public service bands, yet its small Dzus rail

footprint belies its robust performance on the VHF, UHF and 800 MHz bands. The system also provides maximum flexibility for those applications requiring separate crew and/or pilot radio control.

A focused and versatile solution for those who communicate in the tactical environment, the P-2000 is ideal for airborne law enforcement, air medical rescue, homeland defense and other public service operators.

## TECHNICAL SPECIFICATIONS

**Altitude:** 55,000 feet ASL (16,764 meters)

### Temperature:

Operation: -22°F to +140°F (-30°C to 60°C)  
Storage: -67°F to +185°F (-55°C to 85°C)

### Weight:

P-2000 (Single Transceiver): 3.10 lbs. max. (1.4 kg)  
P-2000 (Dual Transceiver): 3.70 lbs. max. (1.68 kg)

### Dimensions:

Height: 3.0 Inches max. (76.2 mm)  
Width: 5.75 inches max. (146.05 mm)  
Depth: 7.1 Inches max. (180.34 mm)  
(not including mating connectors)

**Faceplate Colours:** Black or gray

**Panel Lighting:** 5 VDC, 5 Vrms and 28 VDC  
(voltage sense only)

**Channel Memory:** 512 channels per band

### Input Power Requirements:

Normal Voltage Range: 22.0 to 30.3 VDC  
Abnormal Voltage Range: 20.5 to 32.2 VDC  
Emergency Operation: Not supported  
P-2000 (Single Transceiver):

Receive: 0.75 A nominal. 1.20 A max  
Transmit: 2.50 A nominal. 3.00 A max

P-2000 (Dual Transceiver):

Receive: 0.75 A nominal. 1.20 A max  
Transmit: 3.50 A nominal. 4.00 A max

### Frequency Band P-2000/RT-2000:

Any combination of one or two bands listed below:

137-174 MHz  
380-470 MHz  
450-520 MHz  
764-870 MHz

### Audio Output:

Headset Out: 100 mW into 600 ohms  
Normalized Out: >1.0 VRMS into 10k load  
External Speaker Out: >1.0 VRMS into 10k load

### RF Power Output:

10 Watt Hi, 1 Watt Lo (2.75/1 Watt 800 MHz band)

### Certification:

FAA PMA/STC  
Software: DO-170B Level D  
Environmental: DO-160D  
[(B4/F1)X]BAB[S(MB)]EXXXXXZZBXZ[RR]MXXXXA

(Refer to Outline Drawing No. 9-1)