

# BECKER COM

## COMMUNICATION



**AR 3209-(x) VHF-AM Communication Transceiver**

■ This transceiver is ideal for aviation professionals, who need the ultimate in performance and reliability. Because of its efficient design and rugged construction, the AR 3209-(x) transceiver is particularly well suited to the demanding environments of helicopter and military operations. It tunes 760 channels, in the frequency range of 118.0 to 136.975 MHz, and can store 20 preset channels for immediate recall. It has an output of 10 W, with a power supply of 28 VDC.

The complete system is housed in a single compact unit, which mounts in standard 5.75 in DZUS rails. It does not require the remote boxes, interconnecting cables, or external forced air cooling, which are typical of older transceiver designs in this performance class. The AR 3209-(x) is lighter in weight and easier to install

than any other manufacturer's product with comparable performance.

Like all Becker PrimeLine avionics equipment, the AR 3209 transceivers combine modern technology and compact size to provide superior performance.

Clear LC displays, which are easily read in the brightest sunlight show both active and standby frequencies or in channel mode the active and standby channel. Memory for up to 20 channels. Dependable friction-free controls with excellent tactile feedback. Remote tuning via data bus can be provided. Built-in test functions are standard.

The AR 3209-(x) transceivers are built to the requirements in accordance with FAA TSO C37c, JAR TSO 2C37d, 2C38d. ■

## AR 3209-(x) VHF-AM Transceiver

### Technical Data

- Supply voltage:
  - AR 3209-(09) 14 VDC
  - AR 3209-(11) 14/28 VDC
- Current consumption:
  - Receiving: < 70 mA "standby"
  - Transmitting:
    - AR 3209-(09) < 2.5 A at 13.75 VDC
    - AR 3209-(11) < 2.5 A at 27.5 VDC
- Panel Lighting: 400 mA at 13.75 VDC  
200 mA at 27.5 VDC
- Frequency Range: 118.0 to 136.975 MHz
- Channels: 760
- Channel Spacing: 25 kHz
- Memory Channels: 20
- Transmit Power:
  - AR 3209-(09) > 5 W
  - AR 3209-(11) > 10 W
- Modulation Type: A3E
- Receiver Sensitivity: < 1.5  $\mu$ V for 6 db
- Bandwidth:  $\geq \pm 8$  kHz at 6 db
- Selectivity: > 60 dB at 25 kHz (S+N)/N
- Mic Inputs:
  - Dynamic > 2 mV sym. into 150 ohms
  - Standard > 120 mV into 100 ohms
- Speaker Output: > 3 W into 4 ohms
- Headphone Output: > 100 mW into 600 ohms
- AF Auxiliary Output: 1 – 8 V into 600 ohms
- Antenna Impedance: 50 ohms
- Operating Temperature: -20 °C to +55 °C
- Maximum Altitude: 50 000 ft.
- Dimensions:
  - W: 146 mm,
  - H: 45.0 mm,
  - D: 194.0 mm,
  - not including clearance  
for connectors & cables
- Weight: 1.20 kg

### Certifications:

JTSO - 2C37d, ED-23A, Equipment Class 4  
 JTSO - 2C38d, ED-23A, Equipment Class C  
 EUROCAE/RTCA ED-14C/DO-160C  
 EUROCAE/RTCA ED-12A/DO-178A  
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