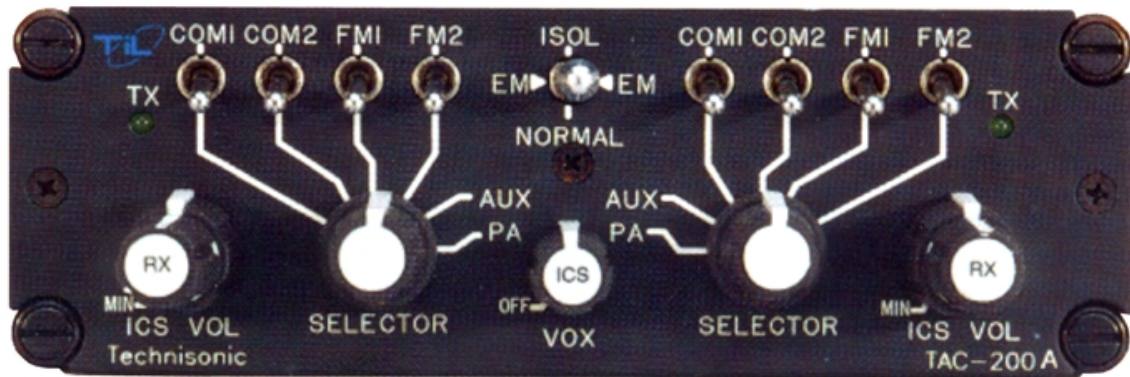


MODEL TAC-200A

Dual Audio Management System



Technisonic Dual Audio Controller

The Technisonic TAC-200A Dual Audio Management System was designed to provide superior performance for those installations requiring two completely independent audio controllers in a single panel mounted configuration. Separate pilot and co-pilot transmit selector switches enable two operators to select any of the aircraft communications transceivers or PA amplifier, while input audio selector switches for each input allow selection of any or all of the available aircraft audio inputs. Additionally, any of the 8 inputs can be switched (internally) to operate on either side of the controller. The TAC-200A features front panel adjustable and selectable, VOX, LIVE or KEYED intercom (ICS) for both pilot and co-pilot positions.. The function of the ICS pot is to control the vox trigger level. When the ICS pot is rotated to the fully ccw (OFF) position, intercom operation is push to talk. When turned fully cw, live ICS operation is enabled. A locking EMERGENCY/ ISOLATE/NORMAL mode switch is provided, which enables "straight through" transmit and receive audio for the pilot, on the selected radio in the EM (Emergency) position and pilot isolation from the intercom bus in the ISOL position. In the NORMAL position the pilot is included on the shared intercom bus which can include up to 6 positions. Input provisions include two VHF/AM COM positions, two FM transceiver positions, an AUX position (which can operate as a third FM), and a PA position which will drive any of the commercially available PA/Siren systems. This high power audio controller delivers 500 milliwatts of audio (per side) into 600 ohms at less than 5% distortion. Due to Technisonic's multi-layer board construction, hum and noise as well as inter channel cross talk are kept to a sub-audible level. The TAC-200A pin-out is compatible with the new optimized ACCESS/A Interconnect Standard. The small size, and light weight of this superior audio management system make it ideal for helicopter installations. The TAC-200A meets all requirements for "contractor furnished avionics" as outlined in the latest US Forest Service Contract requirements.

Compare These Features

The TAC-200A Dzus panel mounted audio management system is completely self contained and fits into a 5.75 (W) x 1.87. (H) x 6.35 (D) slot. The entire controller (including connectors) weighs just 2.5 pounds. Front panel controls are separate, concentric ICS and Receive volume for both left and right, Transmit selector for both left and right, an ISOLATE/EMERGENCY/NORMAL mode switch, an ICS vox threshold control, and eight pilot selectable receive input switches. The TAC-200A can support up to six headsets. Technisonic audio controllers can be ordered with either 28 VDC (standard) or 5 VAC (Specify) backlighting, which is controlled by the aircraft dimmer bus. Technisonic audio management systems are compliant with TSO C50c and RTCA DO-160C categories relating to Vibration, Humidity, Temperature and Altitude, ensuring top performance at an affordable price.

TAC-200A General Specifications

Physical dimensions	Width - 5.75 inches Height - 1.87 inches Depth - 6.35 inches
Weight	2.5 Lbs (1.15 Kg)
Temperature range	-40 deg C to +70 deg C
Power requirement	28 VDC at 350 mA (max)
Input impedance	1000 ohms (min)
Headset output impedance	56 ohms
Frequency response	within 3 dB from 300 Hz to 6000 Hz
Audio output power	500 mw (per side) into 600 ohms
Audio distortion	less than 5% THD at rated output
Hum and noise	better than 50 dB
Input muting (when mike is keyed)	better than 55 dB
Input isolation	better than 55 dB between inputs
Mounting	Standard Dzus, 4 fasteners
Backlighting	28 VDC or 5 VAC (specify when ordering)
Environmental	RTCA DO-160C (alphabet soup goes here)
Certification	TSO C50c pending



Typical Forestry installation consisting of Technisonic TAC-200A Dual Audio Controller and TFM-138B Airborne FM Transceiver.

Note: Specifications are subject to change without notice

Technisonic Industries Ltd.
240 Traders Blvd, Mississauga, Ontario L4Z 1W7 Canada
Ph: 905 890-2113 Fax: 905 890-5338 www.til.ca