

Tone Remote Adapter

ITA2000A

GAI-TRONICS®



Features

- **Multiple Parallel Tone Deskset Support**
- **16 Channel Control**
- **Selectable Guard Tone Keying (2175 Default)**
- **Courtesy Tones**
- **2 or 4-Wire**
- **Full-Duplex Capability**
- **Adjustable Receive Input Sensitivity and Transmit Output Level**
- **Selectable Input/Output Logic Control**
- **Supervisor Control**
- **Scanning Control Feature***
(A radio with channel-steering capability is required)



Applications

- Police, Fire, Ambulance
- Utilities, Taxis, Airlines
- Forestry, Parks and Recreation
- Industries, Municipalities, Construction
- Security and Public Safety

The **ITA2000A Tone Remote Adapter** uses a state-of-the-art digital signal processor (DSP) to ensure highly accurate and fast tone decoding and audio filtering. It allows a tone remote deskset such as GAI-Tronics models ITR1000A, ITR2000A and IPE2500A to control a radio station from a remote location through dedicated, leased telephone lines or in-house wiring. The ITA2000A decodes standard EIA tone keying sequences on the phone line from the tone remote deskset.

The advantages include flexible programming, appropriate front panel radio controls and status LEDs, automatic audio levels, and a dispatcher/service mic jack. The unit is compact and supports full-duplex or simplex deskset stations. The ITA2000A has an accessory connector that supports local control devices such as a telephone interconnect, extended local deskset, or a secondary radio.

Each ITA2000A is capable of providing radio scan control and monitoring of radio with channel steering capability. Our Models ITR2000A and IPE2500A Tone Remote desksets are capable of displaying (4) or sixteen (16) frequencies respectively. The IPE2500A can be programmed to display aliases.

ITA2000A has been specially designed to fit most radio systems. Selectable and adjustable functions are used to work with specific radio protocols and specifications. Some adapter functionality is limited by radio capabilities (e.g. intercom path must exist for standard intercom feature to work). Some cabling and set-up changes are required for certain radios.

*US Patent 6,950,653

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Specifications for ITA2000A

Color Black
 Size 7.03" X x 6.3" L x 1.5" H
 Weight4 lbs. min.
 Temperature -30° to +70°C
 Humidity95% at 50°C non-condensing
 Power Input 10.5VDC - 16VDC; 100 mA max.
 Frequency Response ±3 dB at 300 Hz to 3000 Hz
 (except Tx and Rx audio notch at 2175 Hz)
 Hum and Noise More than -45 dB below rated outputs
 Line Audio Input Microprocessor compensates for
 line losses of up to 24 dB
 Audio Distortion Less than 3% THD
 Rx Input... 32mVAC - 4.5VAC into 600 ohms (nom. 300mV ac)
 Tx Input... 32mVAC - 4.5VAC into 600 ohms (nom. 80mV ac)
 Line Input: -25 dBm to -0 dBm AGC to reference
 (nominal - 10dBm)
 Line Output: -15 dBm to +10 dBm. ... Adjustable into 600 ohms
 (nominal - 10 dBm)
 Max. Number of Desksets Supported ... Per System Limitations
 Microphone Connections Desk Microphone
 Logic Outputs PTT, MON, CH-STEER, CTC5-DIS;
 20 mA, 100 mW dissipated

Safety Class III SELV powered equipment.
 Powered by optional UL-listed (E104603)
 and CSA certified (LR67888) ac adapter.
 EMI USA: FCC Part 15, Sub. B-Verification
 Canada: ICES-003
 Line Interface FCC Part 68 Exempt (Category II
 Tariff #260 service for private/leased line application
 IC: Designed to meet CS03-8
 Category: Voice-band metallic private line channel interface.

Line Input Control Functions

Input Tone Tolerance ±2%

F1 Tx	1950 Hz	F9 Tx	1150 Hz
F2 Tx	1850 Hz	F10 Tx	1050 Hz
F3 Tx	1750 Hz	F11 Tx	950 Hz
F4 Tx	1650 Hz	F12 Tx	850 Hz
F5 Tx	1550 Hz	F13 Tx	750 Hz
F6 Tx	1450 Hz	F14 Tx	650 Hz
F7 Tx	1350 Hz	F15 Tx	550 Hz
F8 Tx	1250 Hz	Monitor	2050 Hz

Accessories and Options

3308-00750-00 110 V ac Power Supply (Optional-needed if power is not received from connected radio)
 3308-00750-10 220 V ac Power Supply (Optional-European style connector with two round pins)
 XDM004A Desk Microphone
 XAC0005A Rack Mount
 61531-007 Radio Interface Cable to GM300/MAXTRAC or GRI225
 61531-004 Radio Interface Cable to KCT-19 (Kenwood)

Note: The Scanning Adapter feature requires a radio with channel-steering capability.

Call Customer Service (1-800-492-1212) For Application Assistance and Pricing. Specifications Subject To Change Without Notice.



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Quality Management System Certified by DNV-GL - ISO 9001:2008. The policy of GAI-Tronics is one of continuous improvement; therefore the company reserves the right to change specifications without notice.



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