

## Audiocom™ Intercom Systems Model IC-1F/LS



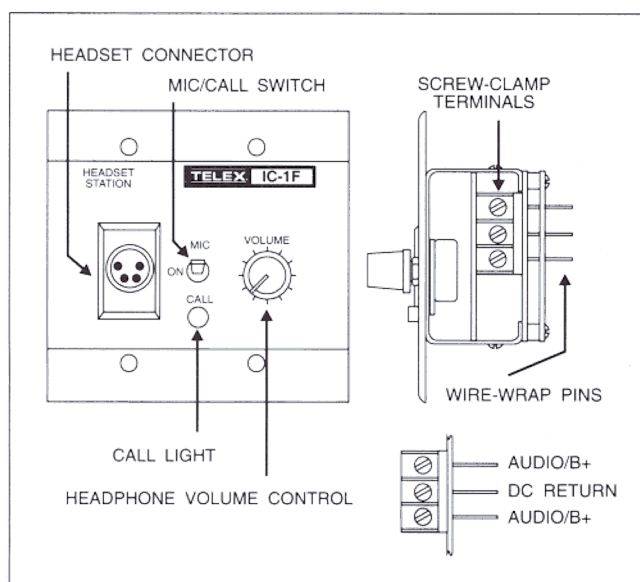
### General Description

The IC-1F/LS is a single-channel, flush-mount headset station with light signaling. It is designed for use in balanced Audiocom™ intercom systems. The station mounts in a standard, two-gang electrical wall box (not supplied) and comes with four mounting screws.

The IC-1F/LS accepts a monaural, unbalanced dynamic-microphone headset and is compatible with all Audiocom headsets that have an XLR-4F type connector.

### Design Features

The wall plate is stainless steel painted non-glaring black. The chassis is aluminum. All control and connector nomenclature is clearly silkscreened on the unit. The IC-1F/LS has both screw-clamp terminals and wire-wrap pins for intercom channel connection. The screw-clamp terminals can accommodate 14-22 AWG solid or stranded wires. Two sets of wires may be connected for loop-through to additional stations. The wire-wrap pins may be cut off, if desired, to decrease the depth behind the front panel.



IC-1F/LS Reference View

### Specifications

#### Frequency Response

Transmit: 150-7000 Hz  $\pm 1/3$  dB

Receive: 180-6,000 Hz  $\pm 1/3$  dB

#### S/N Ratio

Mic Input: 60 dB

#### Input Level

Microphone: 5 mV nominal, 12 mV max

Channel: 1V (0 dBm) nominal, 4V (12 dBm) max

#### Input Impedance

Microphone: Greater than 5,000 ohms (designed for use with 50-600 ohm, unbalanced, dynamic mics)

Channel: Greater than 10,000 ohms

#### Headphone Output Impedance

60 ohms (designed for use with 150-600 ohm phones)

#### Output Power

Phones: 75 mW into 150 ohms

Channel: 10 mW (+10 dBm)

#### Total Harmonic Distortion

Transmit: 1% at 10 dBm

Receive: 1% at 50 mW

#### Channel Common Mode Rejection

40 dB at 60 Hz

#### Call Signal Requirements

20 kHz  $\pm$  300 Hz, 150 mV

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### Power Requirements

Voltage: 12-30 Vdc, 24 Vdc nominal

Current: No signal, 12 milliamps; average talk, 20 milliamps; call mode, 30 milliamps

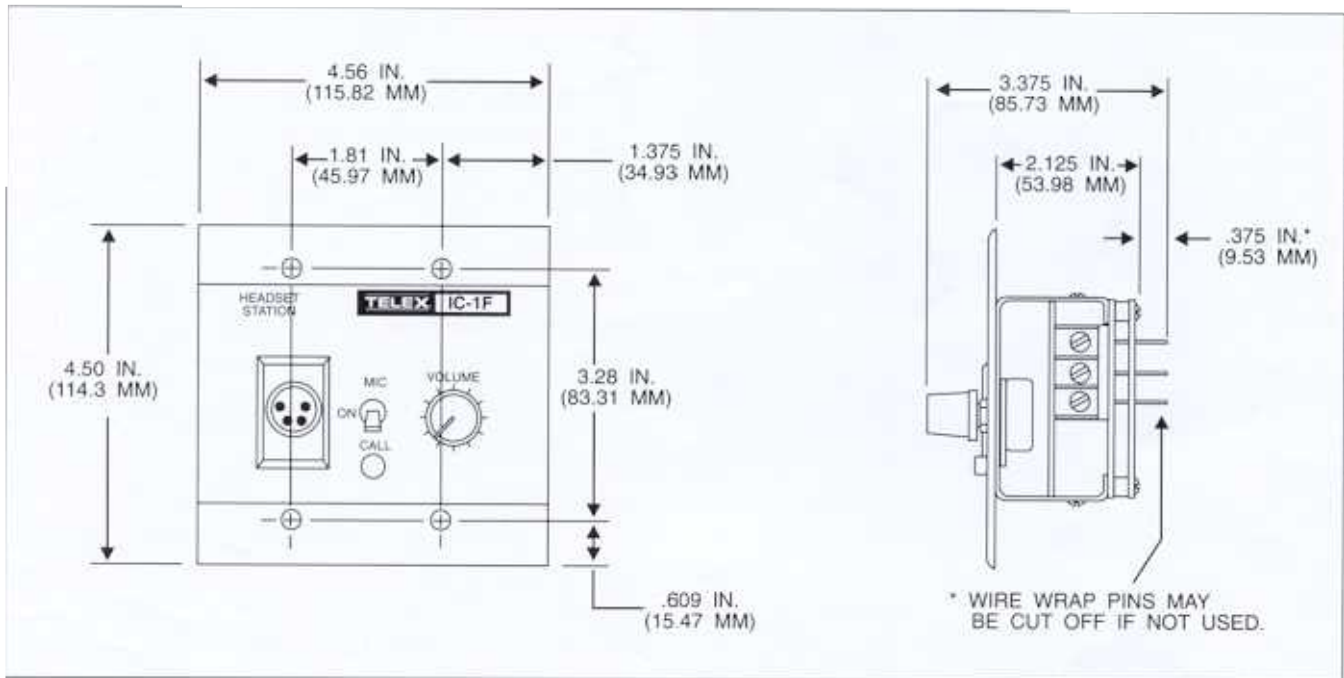
### Weight

16 oz (454 grams)

### Connector Types and Pin-outs

Headset: XLR-4M; pin 1, mic shield; pin 2, mic hot; pin 3, headphone hot; pin 4, headphone shield

Intercom Channels: Screw-clamp terminals or wire-wrap pins. Terminals accept 14-22 AWG, stranded or solid wire.



Dimension Drawing

### Architect's and Engineer's Specifications

The Telex Model IC-1F/LS shall be a single-channel, flush-mount headset station with call-light signaling. It shall be designed for balanced-channel operation, and shall be compatible with all Telex Audiocom™ balanced-channel equipment. It shall mount in a standard, two-gang electrical wall box (not supplied) and shall be supplied with four mounting screws. The intercom channel shall be connected to the IC-1F/LS by means of screw-clamp terminals or wire-wrap pins. The terminals shall accept 14-22 AWG, stranded or solid wires, and it shall be possible to connect two sets of wires to the terminals for loop-through to additional stations.

The wall plate shall be stainless steel painted non-glaring black. The chassis shall be aluminum. All control and connector nomenclature shall be clearly silkscreened on the unit.

The IC-1F/LS shall have a red call indicator LED, a headphone volume control, and a combination mic on/off and call switch. The headset shall connect via an XLR-4M audio connector, and the IC-1F/LS shall accept a monaural, unbalanced dynamic-microphone headset.

### Ordering Information

Model IC-1F/LS Single-Channel Headset Station

92860-004

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# AUDIOCOM™ INTERCOM SYSTEMS

## MODEL IC-1F/LS SINGLE-CHANNEL FLUSH-MOUNT HEADSET STATION

### INSTALLATION AND OPERATION INSTRUCTIONS

#### GENERAL DESCRIPTION

The IC-1F/LS is a single-channel, flush-mount headset station designed for use in balanced Audiocom™ intercom systems. It mounts in a standard electrical wall box (not supplied), and comes with four mounting screws. The IC-1F/LS is connected to the intercom system by means of screw-clamp terminals on the back of the unit, and it receives operating power from the intercom channel.

#### INSTALLATION

Install an electrical wall box at the desired mounting location, and run the intercom wires to the box. The IC-1F/LS requires three wires for connection: two wires for the intercom channel and power supply positive voltage, and one wire for the power supply dc return. If the wires are run in conduit, only two wires are required, and the conduit may be utilized as the dc return if desired. Because of the balanced-line configuration, the IC-1F/LS does not require shielded cable. Solid or stranded 14 to 22 AWG wire may be used.

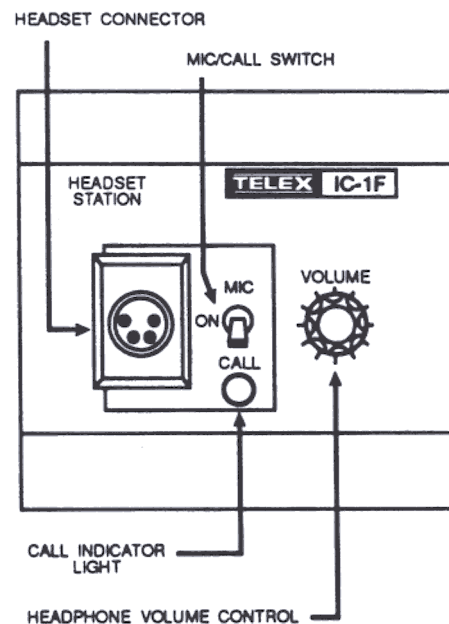
2. Refer to the label on the rear cover of the IC-1F/LS, and make connections as indicated. It is not necessary to observe polarity when connecting the intercom and power supply positive wires. Connect the power supply dc return (negative) wire to the SHLD terminal. An additional set of wires may be connected and run from this station to another intercom station if desired.

Secure the IC-1F/LS in the wall box using the supplied mounting screws.

#### OPERATION

Plug a dynamic-microphone headset into the male XLR-4 type headset connector.

2. Adjust the listening level with the headphone VOLUME control.
3. To listen and talk, set the MIC/CALL switch to the ON (center) position; to listen only, set the switch to the MIC (up) position.
4. The call indicator light illuminates whenever a call signal is being sent or received. To send a light signal, hold the MIC/CALL switch in the CALL (down) position. When the called station responds, release the switch and it will return to the ON position for two-way conversation.



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