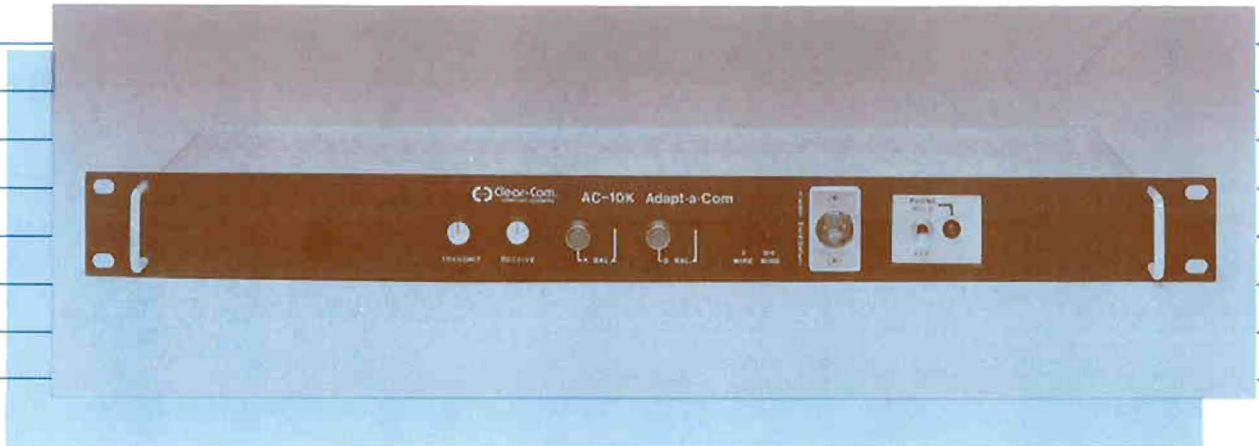


S Y S T E M I N T E R F A C E



AC-10K/AC-10H ADAPT-A-COM

F E A T U R E S

- Universal interface for 2-, 3-, & 4-wire systems
- Balancing circuits
- Headset test connector
- Transmit & Receive gain controls
- Transformer-isolated
- Uses minimal rack space
- Easy to interconnect
- Available with telephone holding coil (Model AC-10H)
- Powered by Clear-Com line



D E S C R I P T I O N

The AC-10K "Adapt-A-Com" is a versatile, active hybrid interface that connects the Clear-Com System to a variety of other communications systems. These include two-wire, three-wire, and four-wire telephone systems, carbon systems, and other closed-circuit intercoms.

The AC-10K provides built-in test tones and balancing circuits for fast, convenient set-up. A front panel connector lets you plug in a standard Clear-Com headset for listening to test tones during set-up. The front panel also provides Transmit and Receive controls to adjust the level from Clear-Com to the other system; these controls allow for at least 10 dB of gain.

In the two-wire mode, the AC-10K works with standard telephone company systems or dedicated telephone line pairs. You can feed the telephone line directly through the AC-10K to the Clear-Com System. **Model AC-10H** is a version of the Adapt-A-Com that includes a holding coil. This allows you to dial or receive a telephone call and then hang up the receiver, keeping the party on-line for intercom purposes.

When operating in the two-wire mode, the AC-10K can be set up for high impedance (600 ohm TELCO) or low impedance (16 ohm; e.g. RCA or DAVEN) lines.

In the three-wire mode, the AC-10K looks like a carbon headset, and so can be wired into the headset jack of a television camera, camera control unit, or other carbon headset system.

In the four-wire mode, the AC-10K connects to all four-wire TV camera intercoms and other four-wire intercom systems.

Any Clear-Com Power Supply connected to two Adapt-A-Coms wired together effectively creates an "anything-to-anything" adaptor.

The AC-10K mounts in a standard 19" rack, using only 1.75" vertically. It is powered through the Clear-Com System with standard two-conductor mic cable. The rear panel provides 5-way binding posts for fast, positive connection to the interfaced system.

SPECIFICATIONS

Frequency Response: 150Hz-10kHz, ±3dB

Load to Clear-Com: High Impedance (bridging)

Interface Impedance: In normal 2-WIRE mode, external unit "sees" 1100Ω across AC-10. In LOW-Z 2-WIRE mode, external unit "sees" 4Ω. In 3/4-WIRE mode, transmit output impedance is 200Ω, and receive input impedance is 500Ω (actual)

Controls: A & B Balance (to reduce side tone and permit increased gain before feedback).
A & B Test Switches (to inject test tone and switch monitor headset for balancing purposes)

Transmit Gain Control

Receive Gain Control

Mode Select Switch

Impedance Select Switch (for 2-wire systems only):

High Z, approx. 600Ω. Low Z, approx. 16Ω

Maximum Loop Gain: 10dB overall

Transmit Output: +8dBm maximum into 600Ω (normal 2-wire mode)

125mV maximum into 4Ω (Low-Z 2-wire mode)

+4dBm maximum into 600Ω (3/4-wire mode)

Test Headset Output: Drives 300-Ω or higher-Z phones (4-pin XLR male connector)

Input & Output Connectors: Four 5-way binding posts for interface to other systems; one (3-pin XLR female connector) for interface to Clear-Com

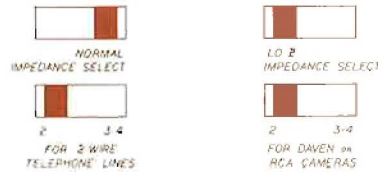
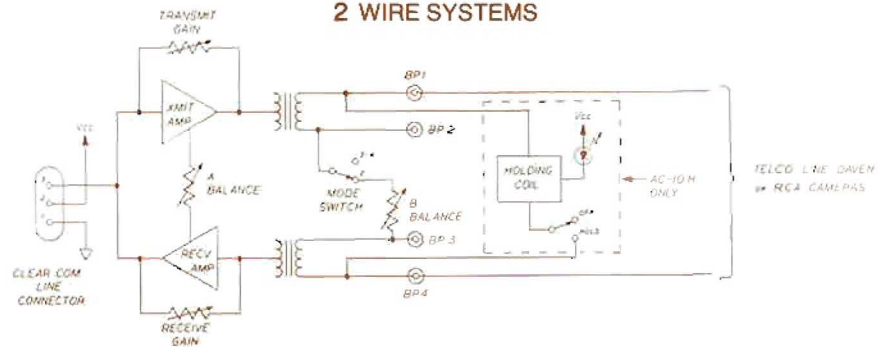
Power Requirements: 16ma @ 28V from Clear-Com

Dimensions & Weight: 1.75"H x 19"W x 0"D; 2lbs (4.5 x 19.1 x 18.2cm; 0.91kg)

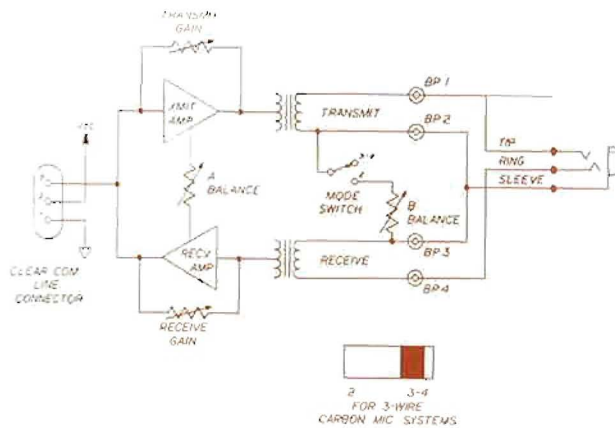
Options: Telephone holding coil (AC-10H)

Specifications subject to change without notice
*0 dBv is referenced to 0.775 volts rms.

2 WIRE SYSTEMS



AC-10K/H BLOCK DIAGRAMS



3 WIRE CARBON SYSTEMS

4 WIRE TELEPHONE/CAMERA SYSTEMS

