



FEATURES

- **Universal interface for 2-, 3-, and 4-wire systems**
- **Balancing circuits**
- **Headset test connector**
- **Transmit and receive gain controls**
- **Transformer-isolated**
- **Uses minimal rack space**
- **Easy to interconnect**
- **Telephone holding coil keeps calls online for intercom purposes**
- **Powered by Clear-Com line**

DESCRIPTION

The AC-10H “Adapt-A-Com” is a versatile, active hybrid interface that connects the Clear-Com system to a variety of other communications systems, carbon systems, and other closed-circuit intercoms.

The AC-10H 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 and listen to test tones during setup. 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.

TWO-WIRE MODE FOR TELEPHONES

In the two-wire mode, the AC-10H works with standard telephone company systems or dedicated telephone-line pairs. You can feed the telephone line directly through the AC-10H to the Clear-Com system. A holding-coil circuit allows you to dial or receive a telephone call and then hang up the receiver, keeping the party online for intercom purposes. When operating in the two-wire mode, the AC-10H can be set up for high-impedance (600 Ω TELCO) or low impedance (16 Ω ; e.g. RCA or DAVEN) lines.

In the three-wire mode, the AC-10H 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.

THREE- AND FOUR-WIRE MODE

In the four-wire mode, the AC-10H 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” adapter.

SIMPLE INTERCONNECTIONS

The AC-10H mounts in a standard 19" rack, and is 1 RU high. 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

150 Hz - 10 kHz, ±3 dB

LOAD TO CLEAR-COM

High impedance (bridging)

Interface Impedance,

2-Wire Mode, Normal: 1,100 Ω

2-Wire Mode, Low-Z: 4 Ω

3- or 4- Wire Mode,

Transmit Output: 200 Ω

Receive Input: 500 Ω

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: ≈ 600 Ω

Low-Z: ≈ 16 Ω

MAXIMUM LOOP GAIN

10 dB overall

TRANSMIT OUTPUT

2-Wire Mode, Normal: +8 dBm max into 200 Ω

2-Wire Mode, Low-Z: 125 mV max into 4 Ω

3- or 4-Wire Mode: +4 dBm max into 600 Ω

TEST HEADSET OUTPUT

Drives headphones with >300 Ω impedance

(4-pin XLR male connector)

INPUT & OUTPUT CONNECTORS

(4) 5-way binding posts for interface to other systems

(1) 3-pin XLR female connector for interface to Clear-Com

POWER REQUIREMENTS

18 mA @ 28 V from Clear-Com

DIMENSIONS

1.75" H x 19" W x 6" D (45 x 483 x 153 mm)

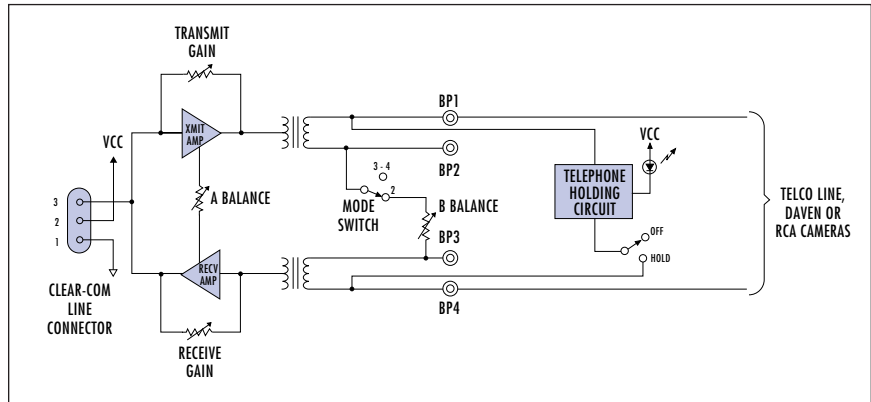
WEIGHT

2 lbs (0.91 kg)

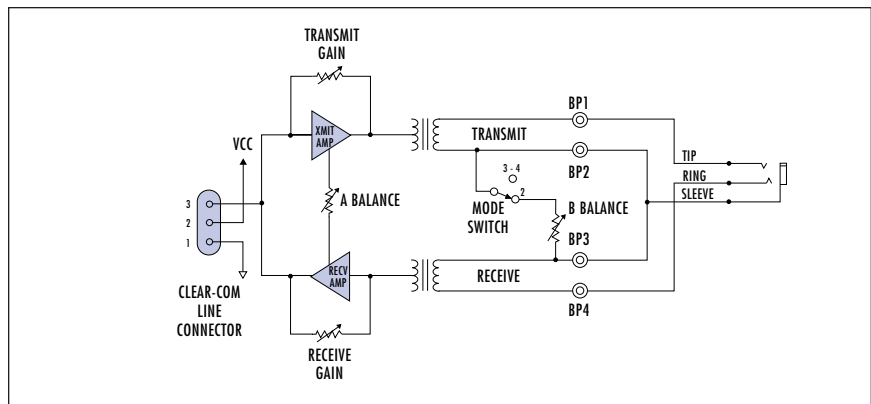
All specifications are subject to change without notice.

** 0 dBv is referenced to 0.775 volts rms.*

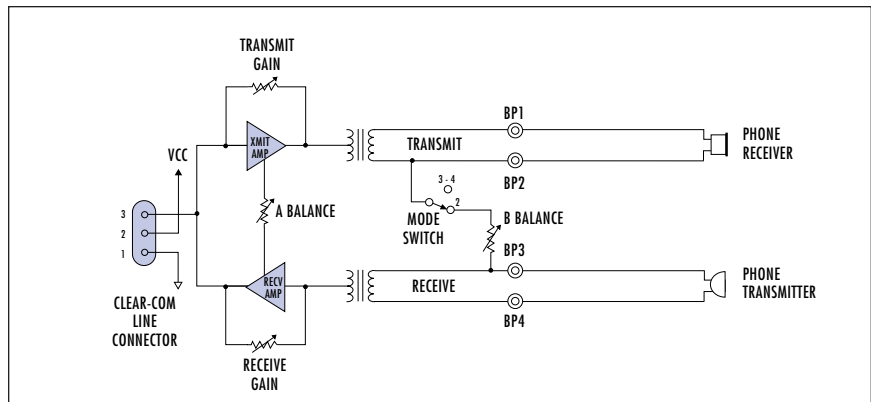
AC-10H BLOCK DIAGRAMS



2-WIRE SYSTEMS



3-WIRE CARBON SYSTEMS



4-WIRE TELEPHONE/CAMERA SYSTEMS