

## DIGITAL COMMUNICATION UNIT FOR REMOTES



The AEQ MPAC-02 is a multiformat portable communications unit, offering in a single equipment all the necessary tools to establish an audio data link between the studio and the remote location, with the best possible sound quality and ease of use, independently of the type of communication line.

The equipment allows two-channel audio communication, one for the Program and the other for Coordination, using a single line, and is equipped with independent monitoring and level control for each input.

The large AEQ experience has allowed the integration of several equipments in the MPAC-02:

- Two Audiocoders; two Terminal Adapters; one Digital Hybrid; four Channel Mixer; Headphones Amplifiers, programmable and up-gradeable, with the highest audio quality and reliability.

Using the Auto-Start System, it is possible to program the mode the unit will adopt on start-up.

In this way, the technician can define all the communication parameters, including telephone numbers for dial-up. Through the simple setting of the correspondent micro-switch on the rear panel, upon Power-up the MPAC-02 is self configured. ISDN calls are initiated, Audio and Monitoring Parameters are loaded and the pre-defined circuits are operative in seconds. Your team are "in business and in no time" and, what is more important, with the desired configuration.

The configuration storing and the phonebook edition are performed in a simple and intuitive way using the equipment keypad.

### FUNTIONAL SPECIFICATIONS:

- Three microphone inputs and one micro/line input, with COMBO connectors (for XLR and Jack 1/4) suitable for up to three commentators and one guest.
- Three Stereo Headphones Outputs with independent level for right and left.
- Monitor Signal Selector/router for each one of three available stereo headphones.
- Available signals are: **PROGRAM GO /COORDINATION GO /PROGRAM F'BACK /COORDINATION F'BACK.** Each signal can be easily routed to left, right, both or none, of the earpieces, just pushing the button repeatedly.
- Independent control for mixer levels at each input. Summing Compressor /Limiter.
- Independent dialling for ISDN B1 and B2 channels (Program and Coordination).
- Alphanumeric Phonebook, with up to 256 entries (ten characters for label and up to 16 digits for phone number).
- Backlit LCD Display (2 lines x 24 characters). Indication of status, dial numbers, Phonebook entries and menu options. With Vumeter for monitoring the Program and Coordination signals independently.
- Access to the Coordination channel, with automatic disconnection of Program Circuit, at the push of a button.
- Aux. Line Output with selection of Return, Send or both, for each B channel.
- DTMF generator, for remote equipment control.
- Acousting signalling for incoming Call (analogue mode).
- Software upgradeable. Flash Ram technology, for software upgrading or microprocessor, Terminal Adapters, and Digital Signal Processors.
- Independent analogue acces to both Program and Coordination internal Audiocoders at the rear panel, offering the possibility to use them as Auxiliary returns, P.A. signal, etc.. With adjusting trimmer for local returns.
- Up to 30 different micro-switch selectable configurations can be defined, stored and recalled, upon power-up.

## SPECIFICATIONS

### Available audio coding algorithms:

<b>MODE</b>	<b>BANDWIDTH</b>
<b>Analogue</b>	
With Extensor:	50 Hz--3.050 Hz
Without Extensor:	300Hz--3.300

### **ISDN 64 Kbps**

G.711 LAW-A	300 Hz--3.3 KHz
G.711 LAW-μ	300 Hz-- 3.3 KHz.
G.722 statistical	20 Hz-- 7.5 KHz
G.722 H221/H242	20 Hz--7.5 KHz.
MPEG LII 24 KHz. Mono	20 Hz--11 KHz.
MPEG LII 32 KHz. Mono	20 Hz--12 KHz

### **ISDN 128 Kbps.**

AEQ LD-Extend	20 Hz--15 KHz.
MPEG LII 48 KHz Mono	20 Hz--20 KHz.
MPEG LII 48 KHz Joint Estéreo	20Hz--15 KHz.
MPEG LII 32 KHz Dual	20 Hz--10 KHz.
J.52 Multiplexing	

### **ELECTRICAL SPECIFICATIONS:**

#### **Analogue Connections:**

- Isolated shielded transformer on all input and output channels, with RF filters.
- MIC Input range: -70 dBu to - 34,5 dBu.
- MIC Input impedance: more than 3 KOhms.
- Line Input range: - 9 dBu to + 26 dBu.
- Line Input impedance: 6 K5Ohms.
- Nominal output level: 0 dBu, + 16 dBu maximum.
- Output impedance: less than 75 Ohms.
- Headphone output power: 5 mW, 600 Ohms.
- Analogue feedback input: 0 dBu nominal, adjustable +10 dBu.

### **TRANSMISSION MODES AND COMMUNICATIONS:**

- ISDN: RJ45, 2B+D, Terminal Adapters included. E-ISDN Protocol .
- Analogue Telephone Line: RJ-1, for connection to analogue telephone lines. Digital Hybrid with echo supression and frequency extender.
- V.35 or V.24 (RS-232) DB-25 connector, automatic configuration if used with external Terminal Adapter or Modem.
- RS-232 DB9 connector, for auxiliary data channel.
- RS-232 DB9 connector, for configuration, upgrade.
- Up-gradeable Flash EPROM technology for equipment configuration, no needing to open the equipment.

### **POWER SUPPLY:**

12 VDC/20W, equipment input (range from 12 to 35 VDC).

The AEQ Power Supply, 90/264 VAC, 50/60Hz, has integrated an Uninterrupted Power Supply (UPS), in this way as emergency system, thus avoiding loss of the connection in case of a general Mains Power Failure (30 minutes autonomy).

### **DIMENSIONS:**

- Width: 34.5 cm.
- Height: 10.3 cm.
- Depth: 30 cm.

### **ACCESORIES:**

Included: Carry bag, power supply, RJ-11, RJ-45 cables.

Optional: Aluminium case for the safe transport of your MPAC-02.

Includes the foam moulds to ensure the perfect protection and sufficient space to transport Headsets, Cables, Power Supply, etc., perfectly organised and safe.

Designed by:

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