



BROADCAST ELECTRONICS PRESENTS

ECONO-CONTROL 16

Economy Version of the Successful Control 16
Program Automation Controller



Two-Rack
Econo-Control 16
System

Features:

- Microprocessor based system at economical price
- Field expandable to full Control 16
- Perfect for "live assist" programming
- 2000 program events, 10 repetitive compare times
- Full data error sensing
- Completely interchangeable universal source cards
- Same superior technical performance as full Control 16



Keyboard

The Econo-Control 16 is an economy version of Broadcast Electronics' highly successful, top of the line Control 16. Many of Control 16's unequalled features such as simplicity of operation and superior technical performance are retained in this new smaller program controller. Econo-Control 16 meets the broadcaster's demand for a small control system with a modest degree of sophistication.

What's the difference?

Putting it quite simply, Econo-Control 16 does not use a CRT video monitor. It does, however, include the same por-

table lightweight Keyboard and the unique Audio Control unit as the full Control 16. This design concept makes Econo-Control 16 the only small microprocessor controller that can be expanded to include all the features of the top of the line video monitor systems.

Should your later needs require full two way communication, simply plug in the CRT video monitor and associated electronics to expand your Econo-Control 16 to include all the features of the full Control 16. Since the same Keyboard is used, the time required for operator retraining is minimized when expanding later.

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How about live assist?

Econo-Control 16 fits in quite nicely with "live assist" programming. From the portable keyboard, the on-air announcer has easy access to all sources in the system. He can "random select" pre-recorded commercials and music to be played on the air at his discretion, thus allowing the announcer more time for creative live programming.

All pre-recorded material played on the air can be logged in full English with our optional "Intellog" automatic program logging. This feature also relieves the announcer of the mundane task of manually keeping the log.

The announcer has full control of the audio playback sources (start, automatic, manual, fade, etc.) from the keyboard. This lightweight (only 9 lbs.) portable Keyboard is engineered especially for the live assist operation. It can be located up to 175 feet from the Audio Control unit. The large, conveniently located start switch provides easy operation without the need for visual contact.

Econo-Control 16 is a valuable tool for automatically selecting commercial announcements to be played during live sport events or telephone talk shows. Program only a few events ahead or a full 2000 events ahead and start each at the desired moment.



What does Econo-Control 16 offer?

Econo-Control 16 is an advanced microprocessor controller that offers many operational features usually found only in the more expensive top of the line program controllers. Here is what you get with Broadcast Electronics' Econo-Control 16:

2000 Program Events

You can use SEQUENTIAL, MAIN FORMAT/SUB FORMAT, or TIME INSERTION programming, with 2000 events standard. All 3 methods are included to provide the flexibility needed to meet your changing needs.

11 Event Functions

Each event can be programmed with a function along with source and shelf data for positive program control. Functions include:

LINK - to link events together to prevent interruption by time update.

MULTI-START - for smoothly playing time announcements over music.

BACK-TO-BACK - for playing the same reel-to-reel source without stopping between selections.

STOP - to take manual control.

RETURN - for inserting commercials into a repetitive format.

PREROLL - for updating the voice track.

RELAY - for firing optional relays for switching on or off devices external to your system.

UPDATE - the event which the memory will go to when a time jump command takes place.

PLAY - tells the system to play this event normally.

AVAIL - leaves this event blank and available for later use.

GO TO - which commands the memory to go to a specific event in memory.

Built-in Self Correcting Clock and Compare Time Memory

This crystal reference digital clock has many advanced self correcting features. The time memory has capacity for storing 10 entries which repeat on an hourly basis. Any one of 13 functions can be programmed with each time entry.

When the real time clock coincides with a time entry, the system will execute the function. Functions include: STOP, RETURN, PREROLL, RELAY (with optional relay panel), START, JUMP, FADE & START, FADE & STOP, DEAD ROLL START, DEAD ROLL LIMIT, NETWORK EOM, SPECIAL EVENT 1 INSERTION and SPECIAL EVENT 2 INSERTION.

Data Error Sensing

The operator instantly knows when invalid data is being programmed by a pleasant sounding beep emitted from the Keyboard. Programming a nonexistent source or shelf will be sensed immediately and cause automatic reset for accepting valid data.

Programming a source to play back-to-back without the Back-to-Back function will cause a repeated source error. This feature prevents the common mistake of programming two commercial announcements back-to-back from the same random access machine.

Econo-Control 16's DATA ERROR SENSING makes it virtually impossible to enter erroneous event or time data which would otherwise disrupt your on-air sound.

CS' ECONO-CONTROL 16

Universal Source Card

Econo Control 16's source cards are truly universal. Only one type is used for all sources—reel-to-reel sources, single deck cartridge sources, random access sources, etc., and each is fully interchangeable with the other source cards. Each universal source card features:

- 25Hz sensing for reel-to-reel sources
- Voice track update control
- On-air tally signal
- End-of-tape (reel-to-reel tape) alerting signal
- System Silence Sense **extend** or **defeat**
- 8 LED diagnostic indicators

Simple Special Event Insertion

News bulletins or last minute program changes can be easily inserted into the normal program sequence either manually or by time. Two "Special Event Insertions" can be pre-programmed and inserted and reinserted in the program sequence as often as you like without having to reprogram each time. With the Econo-Control 16, you are never locked in or prevented from making last minute changes.

Unique Assignment Table

The unique assignment table means sources no longer have to be hard wired and dedicated to specific use such as Time Announce, Back Time/Dead Roll, or Voice Track. You simply assign, via the keyboard, the sources you want to use for Time Announce, etc., in the assignment table. Should you later decide to use these source playbacks for news, weather, sounders, voicers, etc., you only need to change the assignment table and not the source wiring.

Full Automatic Restart

Econo-Control 16 has the intelligence to automatically restart itself following a main AC power failure. Furthermore, if the source which was on the air when the power failure occurred was a single deck cartridge machine or reel to reel machine, it will be automatically recued off-the-air when power returns.

Diagnostic Printout of Aborted Events (with optional printer)

Aborted events are instantly printed with an English



Econo-Control 16 with Logging Printer (Top Left) and Keyboard (Bottom Left).

description of exactly what occurred. There are 8 conditions that will cause an aborted event:

- Source Power Off
- Source Card Out
- Power Failure
- Machine Error
- (Source) Disabled
- Source Not Ready
- Repeated Source
- Silence Sense

Say, for example the log printout reads:

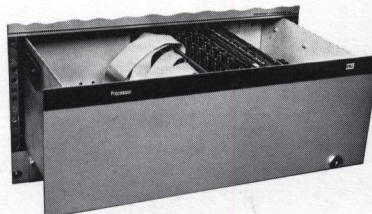
02:05:02P 0005 PLAY 01-00 ***SOURCE POWER OFF***

From the description you can tell that source number 01 did not play at event 0005 when called upon at two seconds after 2:05 P.M., because the source power was not on.

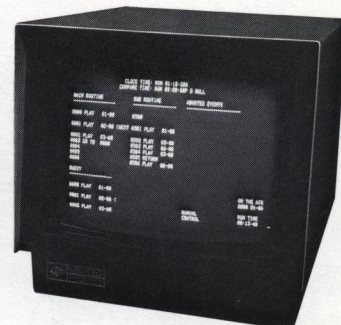
To Expand Your Econo-Control 16...

The Econo-Control 16 is especially attractive to those broadcasters whose present needs do not justify the capabilities of the full Control 16, but who may want to expand to the full Control 16 at a later date.

If you decide to expand, simply add the CRT video monitor and Main Processor chassis to have all the benefits of the full Control 16.



Processor Chassis.



CRT Display Terminal.



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