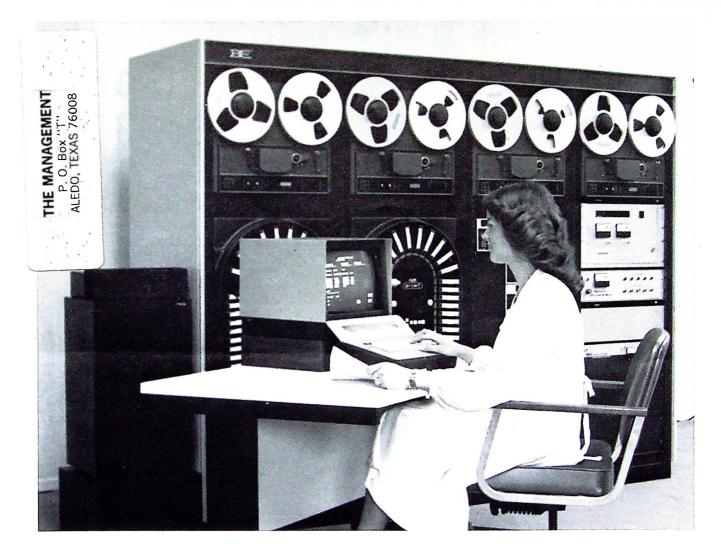


CONTROL 16

A MOST VERSATILE COMPUTER PROGRAM CONTROL SYSTEM



- Control 16 has a proven field record with systems operating around the world.
- Control 16 is the new generation of "intelligent" program control providing the operator with more two way information than ever before.
- Control 16 is versatile enough for the small and medium AM & FM stations, yet powerful and sophisticated enough for the disciplined major market broadcaster.
- Control 16 is of innovative design featuring dual microprocessors and convenient redundancy of electronics.
- Control 16 includes the broadcaster-demanded features which are generally left off competitive systems.

OPERATIONAL HIGHLIGHTS...

Control 16 can do what others can't!

Easy Source Substitution

Any source can be substituted for any other source! Source substitution avoids having to reprogram the memory should a source machine ever become defective. Simply enter one entry to substitute some other source to play in place of the defective source from that point on!

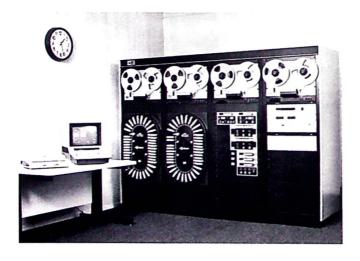
Automatic Memory Search

Let Control 16 do the work. Any commercial announcement can be quickly searched out for deletion or reprogramming. The memory can be automatically searched for any source or any specific source and shelf.

Instant Display of Aborted Events

You will know immediately when an event does not play as scheduled and why! Aborted events are instantly displayed with an English description of exactly what happened, where and why. There are 8 conditions that will cause an aborted event and each is fully displayed on the Video Monitor:

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



Unique Dual Processor Concept

Control 16's unique dual processor concept provides for limited **automatic** operation during emergency conditions. Should the main processor ever fail, the keyboard can be plugged directly into the Audio Control and up to 64 events programmed.

Full Automatic Restart

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

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 preprogrammed and inserted and reinserted in the program sequence as often as you like without having to reprogram each time. With the Control 16, you are never locked in or prevented from making last minute changes. Furthermore, either Special Event Insertion can consist of a single event or a cluster of events. This exclusive cluster capability provides for a bulletin open/report/spot/report/and bulletin close to be easily sandwiched into the normal program sequence without reprogramming the memory.

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!

Data Error Sensing

The operator instantly knows when invalid data is being programmed. The word "INVALID" appears on the Video Monitor and a pleasant sounding beep is also emitted from the Keyboard. Programming a nonexistent source or shelf will be sensed immediately and cause automatic reset for accepting valid data only.

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.

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.

Universal Source Card

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

Self-Correcting Digital Clock

The crystal reference digital clock has exclusive self-correcting features which produce a highly stable time reference. This self-correcting feature ends periodic clock resetting.

YOU HAVE INTELLIGENT COMMUNICATION WITH CONTROL 6

Main Routine

Main Routine displays the memory location of the on-air programming from the Main Routine. The next event to go on the air from the Main Routine is shown beside the word Next. The 7 following events are also displayed for your convenience. Each event displays an English description of the function, along with the source/shelf numbers or a Go To address, or simply a Relay number. The music format or program format is usually programmed in the MAIN ROUTINE.

Next

The arrow by the word Next indicates the Next to run event from either the Main or Sub Routine. The word Next will flash when the next to play source is not ready.

Query

Query displays the event being queried for review or programming. The previous event and following event are also displayed.

Sub Routine

Sub Routine displays the memory location of the on-air programming from the Sub Routine. The next event to go on the air from the Sub Routine is shown beside the word **Next.** The 7 following events are also displayed for your convenience. The commercial announcement schedule is usually programmed in the SUB ROUTINE.

Clock Time

Clock time is the real time digital clock and shows the Day, Hours, Minutes, and Seconds in either 12 or 24 hour format as entered in the assignment table.

Compare Time

The next Compare Time to take place is displayed by Day, Hour, Minutes, and Seconds in either 12 or 24 hour format, along with an English description of the function that will occur. Up to 500 time instructions can be entered.

Aborted Events

Aborted Events are instantly displayed. The exact event aborted is indicated by its event number, along with an English description of the cause. Eight conditions will cause an aborted event and will be displayed: Source Power Off, Source Card Out, Source Not Ready, Silence Sense, Machine Error, Repeated Source, Disabled and Power Fallure.

System Status

System Status displays the On-The-Air event number, along with the source and shelf. Run Time of the on-air source is also displayed. There are additional English descriptions that will automatically appear: Voice Track Disabled, Update Hold, Keyboard Busy, Logger Failure, Manual Control, Load Error, and Xmtr Sys Off.

Additional Displays That Let You Make Programming Decisions Quickly



Compare Time Display
The chronological order of
any 72 Compare Time entries in memory is easily
called up from the keyboard.
This is a convenient display
all operators will appreciate.



63-64 (

IS PLAY 10-05

Events Display
The sequence of any 96

program events starting at any one of the 3000 events in memory is easily called up from the keyboard. Each event shows the function, source and shelf information programmed. This a handy display for quickly and easily reviewing program information.



Assignment Table Display Initial system assignments are easily made from the keyboard while viewing this display. Unlike most other sytems, Control 16's source assignments for Time Announce, Back Time/Dead Roll, Voice Track, etc., are done in software for easy changing should the need arise.



Program Log Display

The last 10 lines of logging data are easily called up for display from the keyboard. Logging data shown will be exactly like that printed on the program log printer. Up to 24 lines of logging data will be shown if display is left in this mode. Programming can now be checked from virtually anywhere in the station to see if events are playing as scheduled.

CONTROL 6 is not just another system

It's Today's "Intelligent" Program Control System

"Intelligent" Two-way Communications. Control 16 is unmatched in its ability to provide information to the operator—in plain English—as to what the system is doing, or why it did not do something it was supposed to do. The Keyboard error sensing and data error sensing make learning system operation fun and extremely easy.

Unlimited Creativity. Control 16 provides the broadcaster with 3000 program events (standard) which can be combined with 11 functions for optimum creativity! You can use Sequential, Main/Sub or Time Insert programming, depending on your requirements.

Advanced Compare Time Capability. Control 16 offers an advanced compare time memory with a capacity for 500 entries! Any one of 18 functions can be programmed to command the system's memory on what to do, on a time basis; in addition, it can switch on or off equipment external to the system, such as delay network recording or reminder alert signals.

Flexible Operation. Only with Control 16 can you **automatically** insert a bulletin consisting of a cluster of events and automatically return to normal programming afterwards. Control 16's portable keyboard can be located anywhere in the station, providing full control of all sources to the operator. Making operator-assist live programming a breeze!

Informative Logging. Control 16's optional "INTELOG" program logging is the most advanced and informative available. Operating at high speed (300 baud), even short carts can be encoded with a full logging description. Not only does it provide a permanent record of what played on the air, it also shows what was scheduled and did not play...and the reason for discrepancy. The Encoding electronics is the most innovative in the industry featuring display of step by step encoding instruction, error detection of encoded message, 32-line message storage with full editing capability, electronic "tab setting", and much more!

Versatile "Live Assist" Capability Included

Control 16 fits in quite nicely with "live assist" programming. The on-air announcer/DJ has easy access to all sources in the system from the portable Keyboard. Commercials and music can be random selected to be played on the air at his discretion, thus allowing more time for creative live programming.

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

The announcer/DJ 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 system and features a large conveniently located START switch for easy operation without the need for visual contact.

Control 16 is also 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 3000 events ahead and start each at the desired moment.

Yes "live assist" is a breeze with Control 16.







BROADCAST ELE

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