

add to the
color, life and
beauty of theaters,
school and college
auditoriums,
public buildings and
other institutions



FRANK ADAM
STAGE LIGHTING
CONTROL SYSTEMS

MODERN STAGE LIGHTING CONTROL

Frank Adam Electric Company is one of the country's oldest and foremost manufacturers of Stage Lighting Control Boards for schools, colleges, theaters, municipal auditoriums, and other institutions.

For more than 65 years this company has been producing lighting controls that have added substantially to the color, beauty, usefulness and enjoyment of all types of auditoriums - - small or large - - modern

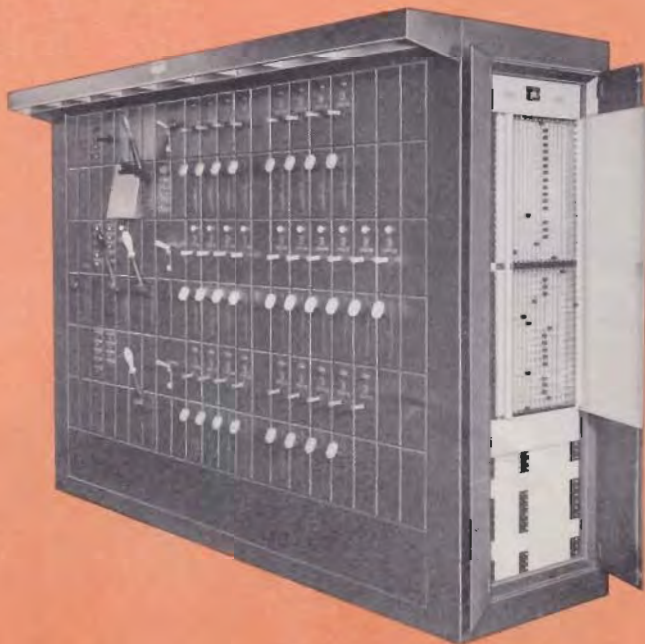
equipment that embodies all the latest features in design and construction.

Four basic types of stage control boards are manufactured by Frank Adam - - manual control, modified pre-set remote control, multiple pre-set switching and dimming remote control, and mobile color lighting control. Dimmer Boards are of the auto-transformer and reactor types.



MANUAL DIMMING STAGEBOARD


Completely self-contained, this free-standing dimmer control board is ideal for small auditoriums. Dimmers are of auto-transformer type with each dimmer controlling all circuits of a color group. Circuit Breakers used in dimmer control provide overload protection and a means for disconnecting dimmers. Branch circuit breakers on each dimmer control may be used for circuit switching. Boards can be furnished with or without doors and with interlocking shaft for master control. Front-connected and completely accessible from the front, these boards can be placed against the wall, thereby requiring less space.



MANUAL SWITCHING AND DIMMING

Self-contained and free-standing. Dimmers are of the manual auto-transformer type and are readily accessible from the rear. Doors can be provided over the front and rear of board. Manual switching may be direct or set-up on group master control. Group master switches may be further set-up for stage master switching. Switches are of the silent operating type. Interlocking dimmers on group master shafts, which can be vertically interlocked for grand master control.

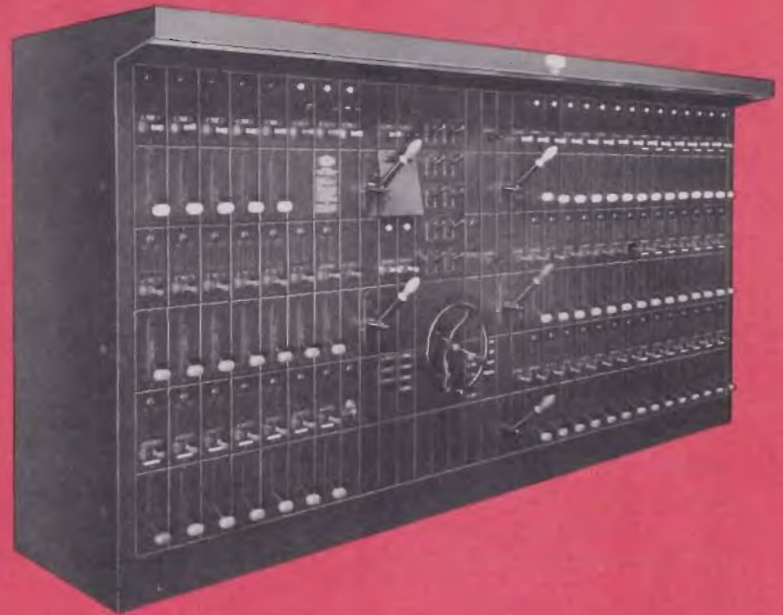
for theaters, schools and other auditoriums

Outstanding
features of
 lighting
control
boards

- Unit construction of switching and dimming control units facilitating future expansion.
- Formed sheet steel construction.
- All switching and dimming components mounted on switchboard framing independent of cover plates.
- Dead front and rear — no live parts exposed.
- All internal wiring made at factory, terminating on conveniently located terminal strips.
- All control boards tailored to meet specific requirements.
- Specially designed dimmer operating lever handles, which indicate at a glance whether operating handle is in position for individual operation of dimmer or interlocked for group or master control.
- Specially designed slot closers, completely enclosing slot in dimmer control plate, through which dimmer handles operate.

REMOTE SWITCHING MANUAL DIMMING

Complete system includes stageboard and a remote board off stage. System is available with modified remote switching or full remote switching; the latter being available with multi-scene pre-selective switching. Also available with interlocking dimmers on a group master shaft which can be vertically interlocked for grand master control. Color master levers can be further interlocked on a slow motion wheel drive for operation of a large group of controls. Also for cross control, which means that certain groups of dimmers may be raised (brightened) simultaneously while other groups are lowered (dimmed). Dimmers are easily accessible from the rear of the board.



REMOTE SWITCHING and REMOTE DIMMING

Illustration shows a console pilot board for a remote switching and dimming system on which magnetic amplifier type dimmers were used. However, motor driven or auto-transformer types are also available. Advantages of system include pre-set dimming and switching for an unlimited number of scenes. Also permits proportional dimming, scene to scene fading at any desired speed and super-imposing of one scene on another. Miniature low voltage intensity selectors provide accurate intensity control plus smooth operation. Because they are miniature, the pilot board requires a minimum of space. Also enables location of dimming equipment off stage, and if desired, can be divided and located at two separate places. Dimming control may be extended to one or more stations or an additional pilot board.

CROSS CONNECTION PANELS

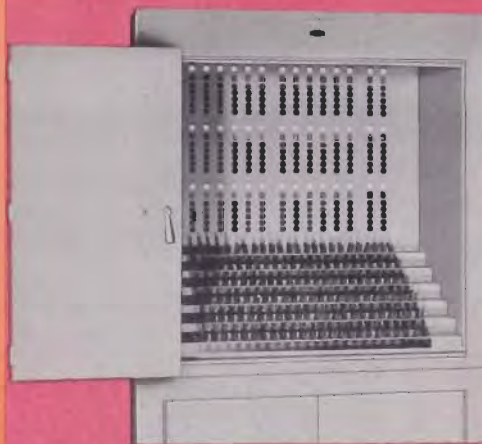
Increase use and flexibility of ANY stageboard. Stage lighting circuits are arranged to be selectively connected either individually or in groups and at any time re-connected to control units either dimmed or undimmed, thus permitting a maxi-

mum of lighting circuits to be used with a given number of dimmers. Several types of cross connection panels are available. These panels can be built as an integral part of the stageboard or mounted separately away from the stageboard.



SLIDING PLUG AND BAR TYPE

Consist of horizontal bus bars connected to the branch circuits through a circuit breaker providing overload protection and switching control along with vertical bars connected to the dimmer control unit on switchboard or to an undimmed control unit. Slider plugs on the horizontal bars are furnished with insulated knobs which provide means for tightening connection to vertical bars permitting group control of branch circuits. A slotted lucite cover prevents accidental contact with live parts. Engraved nameplates identify the bus connections.



PLUG AND JACK TYPE

Consist of retractable cords and plugs for branch circuit connections and plugin jacks for dimmed or undimmed control units. The cords and plugs are connected to the branch circuits through circuit breakers, providing overload protection and switching control. The jacks are connected in groups of two or more to the dimmed or undimmed control units. Two or more cords and plugs can be plugged onto the control unit jacks for group control of branch circuits. Lights can be provided to indicate when plugin jacks are energized. Engraved nameplates identify dimmer and load circuits.



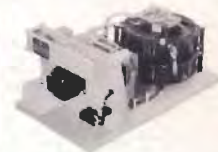
ROTARY SELECTOR SWITCH TYPE

Cross connecting panels consist of heavy duty rotary selector switches of the load break type operable under load. These rotary selector switches can be furnished to provide from 2 to 12 positions. Each branch circuit is provided with its individual rotary selector switch connected through a circuit breaker to provide overload protection and switching control. The selector position contacts are connected to the dimmed or undimmed control unit. Engraved nameplates identify the positions on the selector switches and the branch circuit connections.



AUTO-TRANSFORMER DIMMER

This is the most popular type. Consists of an insulated copper conductor wound around a circular core of laminated transformer iron. Sliding contact is made with the winding to permit contact with each turn of the winding, resulting in flickerless dimming. Any load from a few watts to the full rated capacity of the dimmer can be controlled. Loads can be added to or taken from dimmers without affecting dimming characteristics. These dimmers are available in capacities of 2500, 6000, 6600, and 8000 watts and are adaptable for manual or motor-driven control.



MAGNETIC AMPLIFIER DIMMER

This dimmer consists of static core and coil transformers and reactors; dry disc rectifiers and resistors. There are no electronic tubes, no relays or moving parts. Speed of response is practically instantaneous. The dimmer is controlled by small indicating controllers. The load range for incandescent lamp loads is 30-1 ratio.

FRANK ADAM



FRANK ADAM ELECTRIC COMPANY

BOX 357, MAIN P. O. • ST. LOUIS 3, MO.

makers of

busduct • panelboards • switchboards • service equipment
safety switches • load centers • Quikheter

**Scanned From The Collection Of
Rick R. Zimmerman**

In Memory of Harold Runnion