

A.I.A. File No. 31-F-25



BULLETIN NO. 123
File in Catalog No. 100
SECTION 2, Pages 28A through 28H
Prices on Application



PACKAGED

UNITROL

LIGHTING CONTROL SYSTEM

**VERSATILE DIMMING AND CROSS-CONNECT MODULES
DESIGNED WITH BUILT-IN "ADD ON" POTENTIAL**



**50th Anniversary
Design*

HUB ELECTRIC COMPANY, INC.
2255 WEST GRAND AVENUE • CHICAGO, ILLINOIS 60612



APPLICATIONS

BASIC UNITROL

HUB UNITROL LIGHTING CONTROL MODULES

- Efficient, smooth-operating autotransformer dimmers.
- Complete, ready-to-use.
- Capacity up to 48,000 watts in dimmer base module.
- Available with as many as 8 output receptacles per dimmer.
- Dimmer protection circuit breakers included.
- Additional Unitrol modules can be added to any installation at any time.

Now, with the introduction of this new Hub Unitrol system, you can secure all of the facilities of a custom lighting control switchboard in one, compact, pre-wired, packaged unit.

Hub Unitrol modules are complete, ready-to-use lighting control systems, incorporating the latest design autotransformer dimmers and associated controls.

The only installation requirements for Unitrol modules are to connect the feed (service) and the branch circuits. You can have as many as eight output receptacles for each dimmer (for a total of as many as 48 receptacles). This permits a simple, plug-in connection for as many as eight circuits per dimmer.

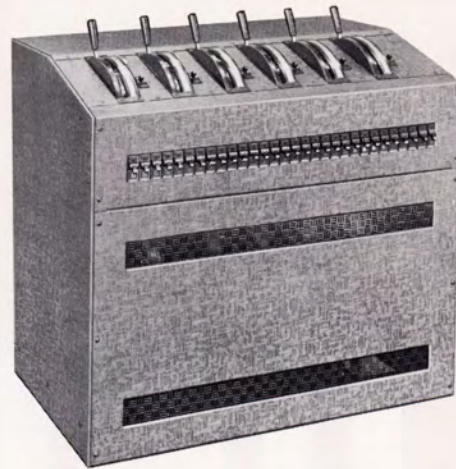
Hub Unitrol dimmer base modules are available with dimmer capacities up to 48,000 watts per module. Capacity can be further increased by adding-on other modules – either base units or upright units.

The intensity of the circuits connected to each autotransformer dimmer is controlled by an individual interlocking lever with a large, easy-to-read calibrated dial. Levers can be mechanically interlocked to each other, thus the control of all dimmers is possible from any one lever.

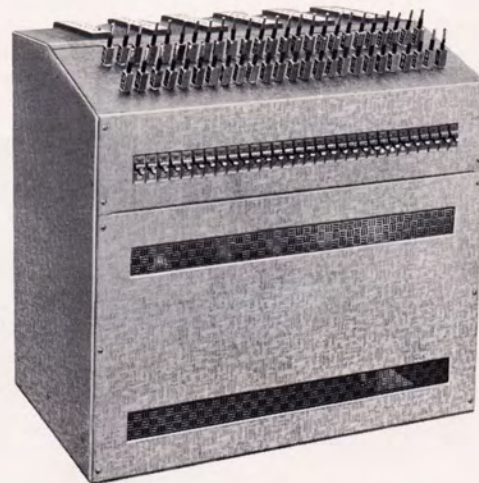
The Unitrol system also includes modules to incorporate electrically proportional dimming and cross-connect patching.

HOW TO SPECIFY A UNITROL LIGHTING CONTROL SYSTEM

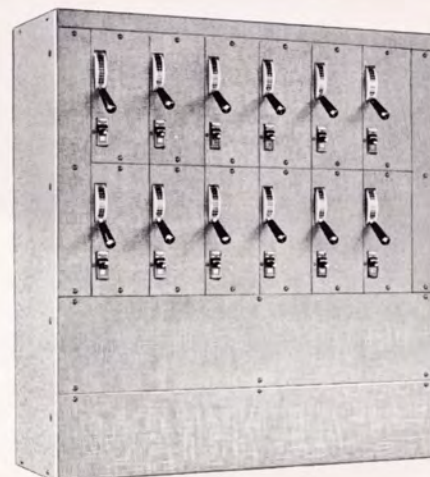
1. List all lighting circuits to be dimmed.
2. Consider the cross-connection that is desired.
3. Determine whether a permanent or mobile dimmer base module is wanted.
4. Select catalog numbers from pages 28D, 28E, 28F and 28G and indicate the Unitrol module combination. Typical combinations are shown on page 28H.



Dimmer Base Module



Cross-Connecting Base Module



Dimmer Upright Module



DIMMER BASE MODULE

A complete lighting control unit for the small school, community center, church or night club. A dimmer base can be used in a fixed position or is available with casters for mobility.

Dimmer base modules are equipped with up to six autotransformer dimmers in a choice of 2500, 6000, watts or in combinations of these; and 3600, 6600, 8000 watts or in combinations of these. All modules come factory wired; see pages 28D and 28E.

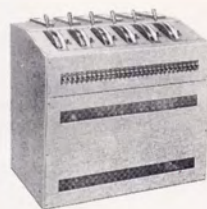
CROSS-CONNECTING BASE MODULE

This Unitrol module is optional and affords a means of easily interconnecting and interchanging many lighting circuits to the dimmers of one or more dimmer modules. Plugs and jacks are of the safety patch type and all cords are retractable. These modules come factory wired to terminals and bus; see page 28F.

DIMMER UPRIGHT MODULE

With 1200 or 2500 Watt
Non-Interlocking Dimmers

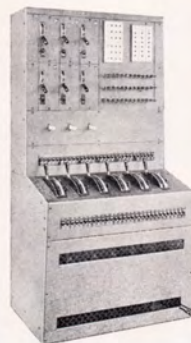
Designed for stacking on a dimmer base module, this upright module can provide added dimming capacity, electrically proportional dimming control, and/or cross-connecting of lighting circuits with the various dimmers. See details on page 28G.



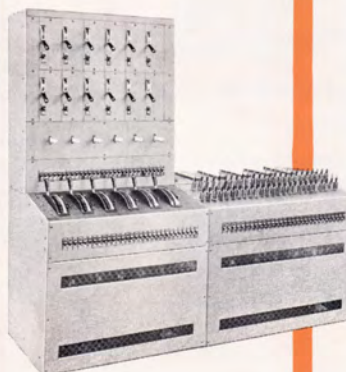
Dimmer base module with output receptacles — as many as eight per dimmer in a choice of three different receptacle types. See pages 28D and 28E.



Dimmer upright module coupled to a dimmer base module for increased lighting control capacity. See pages 28D, 28E and 28G.



Dimmer Upright Module with cross-connect panel and proportional dimming, coupled with a dimmer base. Available with or without proportional dimming feature. See pages 28D, 28E and 28G.

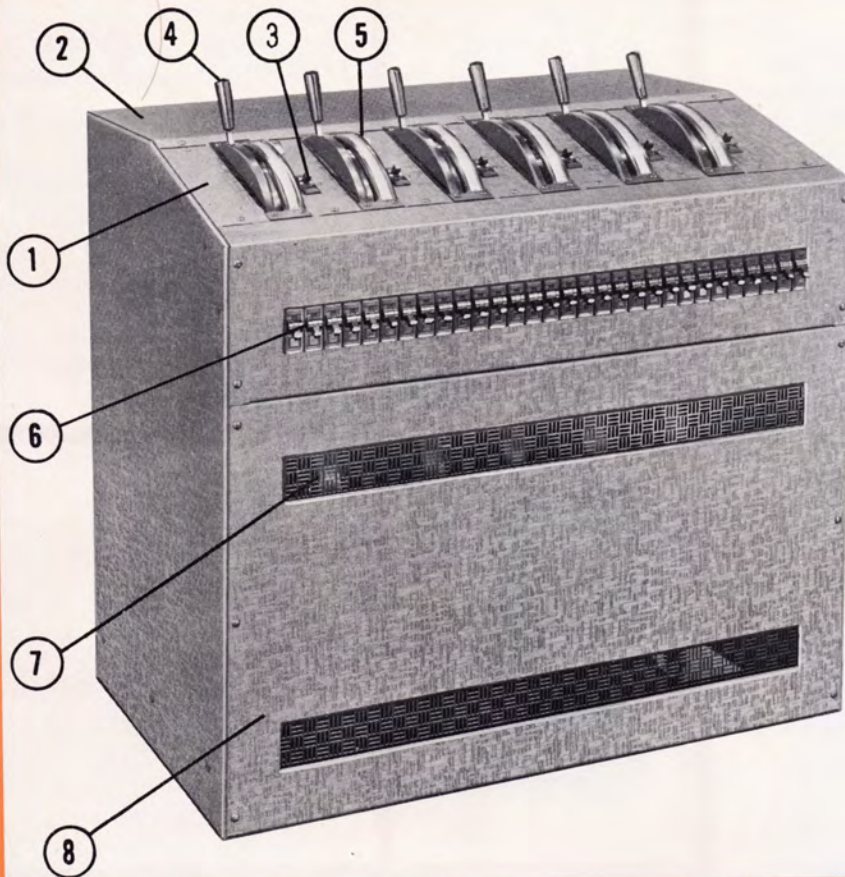


Dimmer upright, dimmer base and cross-connecting base coupled together for "big board" performance. See pages 28D, 28E, 28F and 28G.

Other variations and typical Unitrol installations are shown on page 28H.



UNITROL DIMMER



FEATURES

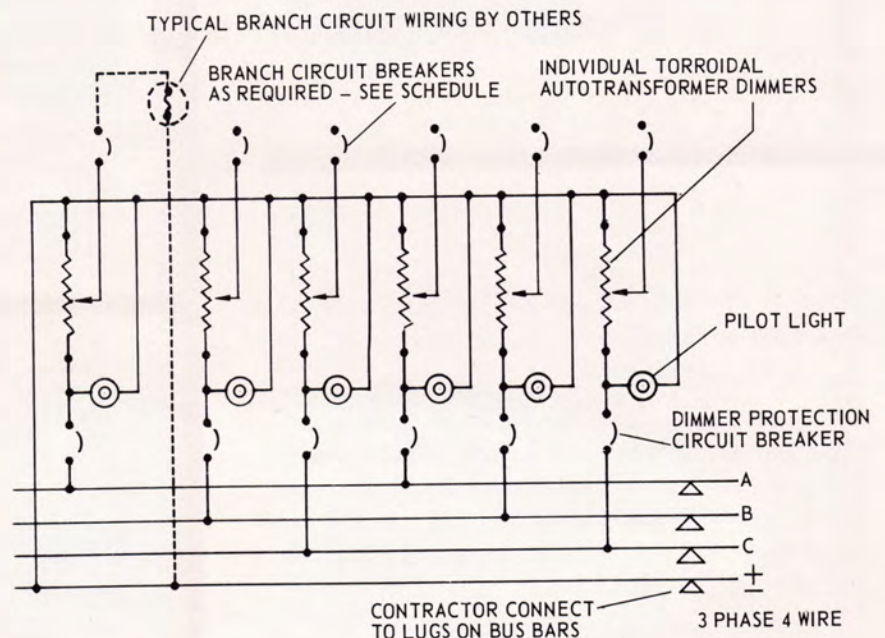
1. Operating face.
2. Area for optional output receptacles; see listing below and at right.
3. Primary "on-off" circuit breaker switch and pilot light.
4. Interlocking lever permits any dimmer to be coupled mechanically.
5. Dimmer intensity control with easy-to-read, 8" long calibrated dial.
6. Dimmer output (secondary) circuit breakers.
7. Air vent grilles.
8. Base module measures 33½" high, 36" long and 26" deep. Constructed of heavy gauge steel with baked non-glare finish.

Contractor can enter unit with conduit at any convenient location and make branch circuit connections to terminals and the feed connections to the bus bars provided.

DIMMER BASE MODULE VARIATIONS

- Available with up to six autotransformer dimmers as listed in chart on opposite page.
- Available as a basic unit without output receptacles (top area blank as illustrated above) where output is wired to dimmer secondary circuit breaker. Unitrol Upright Module (see page 28G) can be placed in this area.
- Available in a choice of three different output receptacle styles as illustrated at right.
- Available with casters and a wall-mounted feed receptacle to convert this module into a mobile dimmer base.
- Available factory wired for single phase, 3-wire 120/240 volts AC or three phase, 4-wire 120/208 volts AC. Specify service when ordering.

WIRING DIAGRAM



BASE MODULES

WITH & WITHOUT OUTPUT RECEPTACLES
OR CROSS-CONNECT FOR BRANCH CIRCUITS



UNITROL DIMMER BASE MODULE				CATALOG SUFFIX AND RATING OF AUTOTRANSFORMER DIMMER				
				S2 2500 W.	S6 6000 W.	W3 3600 W.	W6 6600 W.	W8 8000 W.
Catalog Prefix	Description	Features		"S" dimmers can be combined in any way to a max. of 6 per dimmer base.			"W" dimmers can be combined in any way to a maximum of 6 per dimmer base.	
DB	Direct Connected	Circuit Breakers Per Dimmer	Pri.	One 25A.	One 50A.	One 30A.	One 55A.	One 70A.
			Sec.	Two 20A.	Four 20A.	Two 20A.	Four 20A.	Five 20A.
DBR	With Patch Panel of Safety Patch Single Pin Plugs	Circuit Breakers Per Dimmer	Pri.	One 25A.	One 50A.	One 30A.	One 55A.	One 70A.
			Sec.	One 20A.	Three 20A.	Two 20A.	Three 20A.	Four 20A.
		Jacks Per Dimmer		4	6	4	6	8
		Plugs		Up to a Maximum of 42 Branch Circuits – When ordering, specify No. of branch circuits required.				
MOBILE BASE UNITS consists of "DB" base plus casters and choice of output receptacles. Feed cable by others.								
DBMP	Mobile, with 2-pole plus ground Pin Plug Output Receptacles	Output Receptacles per Dimmer		2	4	2	4	5
DBMT	Mobile, with 2-pole plus ground Twistlock Output Receptacles	Output Receptacles per Dimmer		2	4	2	4	5

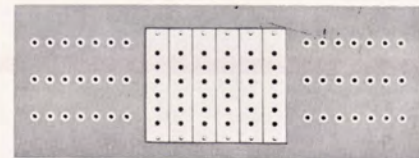
NOTES

- "S" and "W" dimmers cannot be intermixed. Dimmer base module must have all "S" or all "W" dimmers although the different size dimmers can be intermixed.
- DBMP modules can be used with Hub No. 1588 panels (See Catalog 100, Section 2, Page 15).

HOW TO SPECIFY CATALOG NUMBER: If dimmer base module is desired with four 2500 watt and two 6000 watt dimmers direct connected, the catalog number would be DB-4S2-2S6. Specify incoming service.

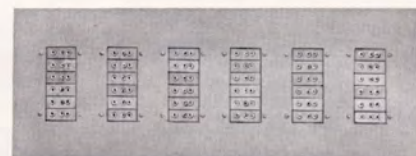
If dimmer base module is wanted with patch panel and three 3600 watt, two 6600 watt and one 8000 watt dimmers, the catalog number would be DBR-3W3-2W6-1W8. Designate number of plugs required and specify incoming service.

1/4" SAFETY PATCH CROSS-CONNECT PANEL

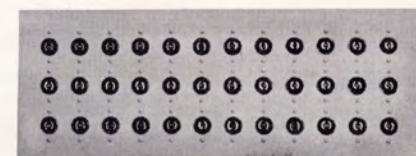


Cat. No. DBR – 20A 1/4" Safety Patch Plugs and Jacks

OUTPUT RECEPTACLE TYPES



Cat. No. DBMP – 20A 2-Pole plus Ground Pin Plug Receptacles

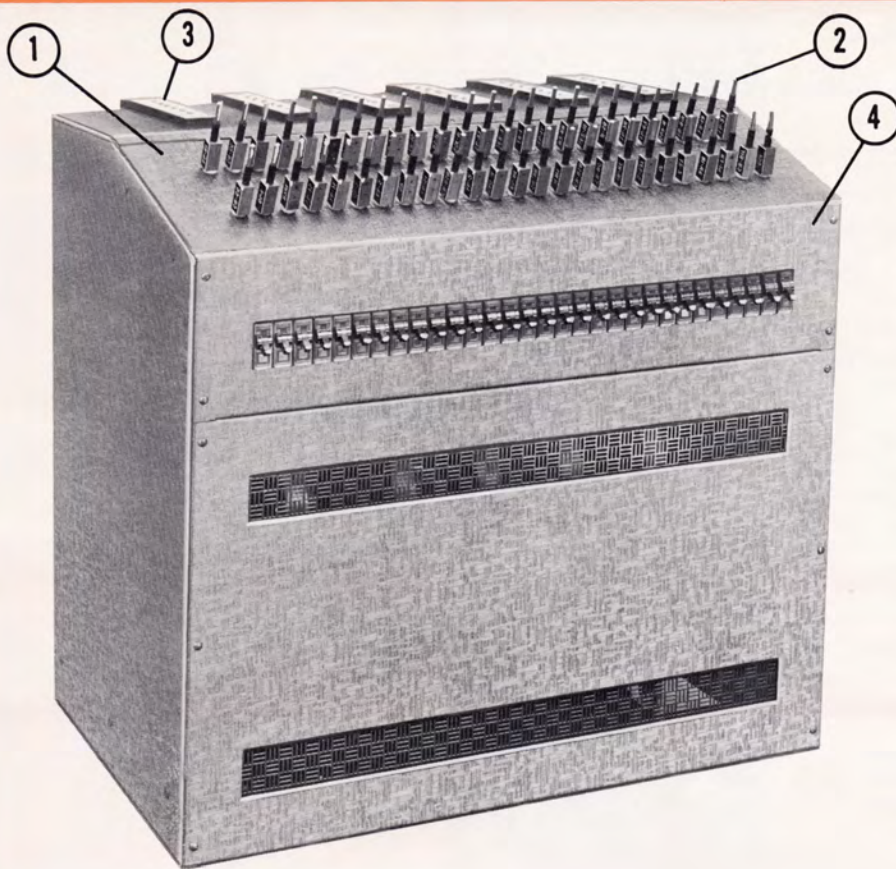


Cat. No. DBMT – 20A 2-Pole plus Ground Twistlock Receptacles

OPTIONAL ADDITIONS
Located in area shown by
Item No. 2 in illustration on Page 28D



UNITROL CROSS-CONNECT BASE MODULES



FEATURES

1. Operating face.
- 2. Safety patch plugs and retractable cords.
3. Safety patch jacks protected by dimmer output circuit breakers. (See note below).
4. Base module measures 33½" high, 36" long and 26" deep. Constructed of heavy gauge steel with baked non-glare finish.

Contractor can enter unit with conduit at any convenient location and make branch and feed circuit connections to terminals and feed bus.

Cat. No. X-8W8 illustrated

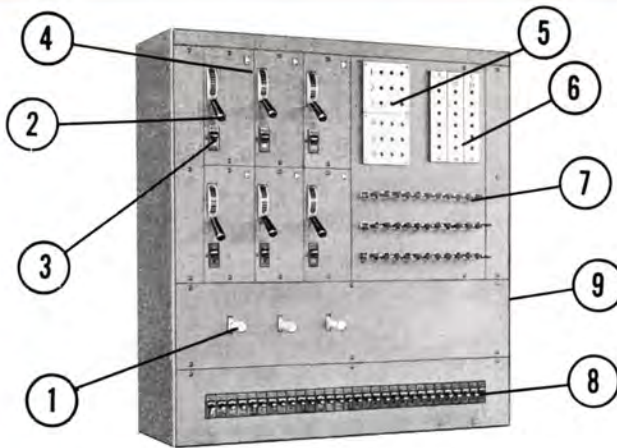
UNITROL CROSS-CONNECT BASE MODULES		CATALOG SUFFIX AND RATING OF DIMMER TO BE CROSS-CONNECTED (Dimmers Located in Dimmer Base or Upright Modules)					
Catalog Prefix	Description	S1 1200 W.	S2 2500 W.	S6 6000 W.	W3 3600 W.	W6 6600 W.	W8 8000 W.
X	No. of dimmer output jacks per dimmer	2	4	6	4	6	8
	*No. of jack protection circuit breakers	One 10A	Two 20A	Three 20A	Two 20A	Three 30A	Four 20A
	No. of 1/4" safety patch plugs	UP TO A MAXIMUM OF 50 STAGE BRANCH CIRCUITS					

* Jack protection circuit breakers are located in Dimmer Base or Upright Modules when complete Unitrol system is ordered. When Cross-Connect Base Module is ordered separately, the jack protection circuit breakers are located in the Cross-Connect Base cabinet.

HOW TO SPECIFY CATALOG NUMBER:

If above illustrated Unitrol Cross Connecting Base Module is to be used alongside of a Unitrol Dimmer Base Module having four 2500 watt dimmers and two 6000 watt dimmers, the catalog number would be X-4S2-2S6. . . Designate number of plugs desired.

UNITROL DIMMER UPRIGHT MODULES



Cat. No. DCXP Illustrated

FEATURES

1. Optional output selector switch for proportional dimming, at extra cost.
2. 1200 or 2500 watt dimmer.
3. Dimmer protection circuit breaker.
4. Optional input selector switch for proportional dimming (dimmers in base module), at extra cost.

5. 1/4" safety patch jacks for 1200 or 2500 watt dimmers.
6. 1/4" safety patch jacks for 3 master dimmers located in dimmer base module.
7. 1/4" safety patch plugs - 36 maximum.
8. Area for non-dim circuit breakers - 30 maximum, optional at extra cost.
9. Upright module measures 38-5/8" high, 36" long and 12" deep. Constructed of heavy gauge steel with baked non-glare finish.

DIMMER UPRIGHT MODULE VARIATIONS

- Available with or without proportional dimming features - see chart below.
- Available with or without cross-connecting feature - see chart below.
- Available factory wired for single phase 3-wire 120/240 volts AC or three phase 4-wire 120/208 volts AC. Specify service when ordering.

When dimmer upright modules are ordered with dimmer base modules - as a lighting control system - all interconnections between upright and base are made at the factory, and both units are fastened together into one integral unit.

UNITROL DIMMER UPRIGHT MODULES						CATALOG SUFFIX AND RATING OF DIMMER	
Diagram	Catalog Prefix	Description	Max. No. of Dimmers			S1 1200 W.	S2 2500 W.
	DC	*Direct connected	12	Number of circuit breakers per dimmer	Primary	One 10A	One 25A
					Secondary	None	Two 20A
	DCP	*Direct connected with proportional dimming	12	Number of circuit breakers per dimmer	Primary	One 10A	One 20A
					Secondary	None	Two 20A
				Input selector switch		One 20A	One 20A
Master dimmer output selector switch		One 60A for every 2 dimmers	One 60A for every 2 dimmers				
	DCX	Direct connected & with patch panel (safety patch single plugs)	6	Number of circuit breakers per dimmer	Primary	One 10A	One 25A
					Secondary	One 10A	Two 20A
				Jacks per dimmer		2	4
Plugs		Up to a max. of 36					
	DCXP	Direct connected & with patch panel and proportional dimming (single pin plugs)	6	Number of circuit breakers per dimmer	Primary	One 10A	One 25A
					Secondary	One 10A	Two 20A
				Input selector switch		One 20A	One 20A
				Master dimmer output selector switch		One 60A for every 2 dimmers	One 60A for every 2 dimmers
				Jacks per dimmer		3	3
				Jacks per Master Dimmer †		6	6
Plugs		Up to a max. of 36					

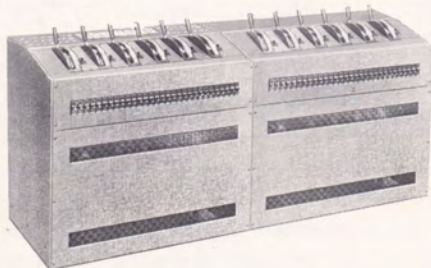
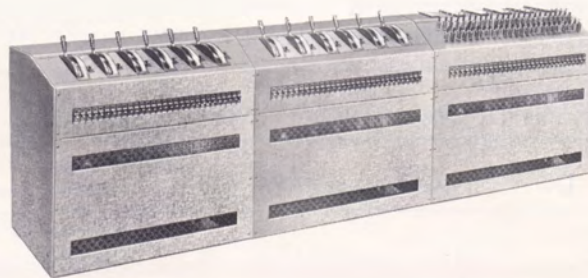
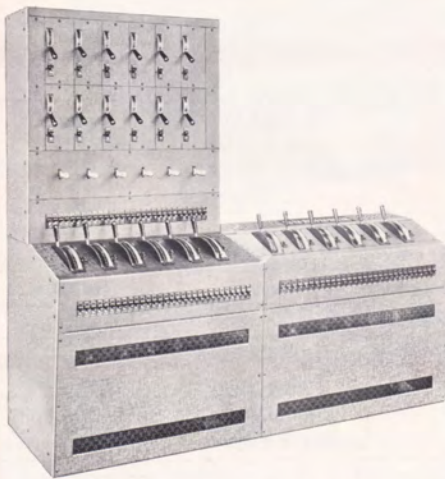
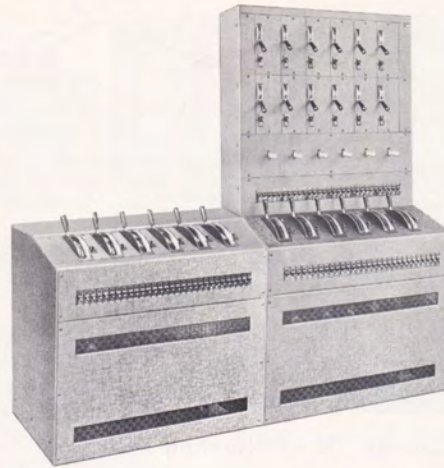
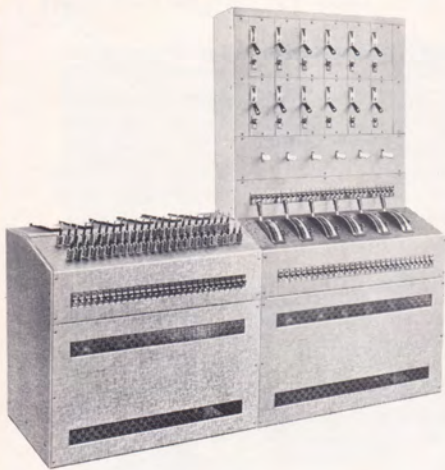
*When Unitrol Cross-Connect Base is used, dimmer outputs can be connected to jacks.

†Master dimmer in dimmer Base Module - See pages 28D, 28E.

HOW TO SPECIFY CATALOG NO.: If Unitrol Upright module desired has six 2500 watt dimmers, proportional dimming, 36 branch circuit plugs and safety patch panel, and mounts on top of Unitrol Dimmer Base module which has three 6000 watt dimmers on proportional dimming circuit, the catalog number would be DCXP-6S2-36 plugs - jacks for 6S2 and 3S6 dimmers. Specify incoming service.

If Unitrol Upright module desired has six 2500 watt dimmers and six 1200 watt dimmers, proportional dimming, mounts on top of Unitrol Dimmer Base module which has six 6600 watt dimmers on proportional circuit, and dimmer outputs connected to jacks in Unitrol Cross-Connect Base module, the catalog number would be DCP-6S1-6S2. Specify incoming service.

TYPICAL UNITROL MODULE COMBINATIONS



These pictures indicate the method of building custom switchboards using inexpensive Unitrol modules. The many combinations possible can be as simple or as complex as your imagination and budget will allow.

Companion Unitrol modules can be added at any time. . .for installation by your local electrical contractor.

When Unitrol module components are specified on the same order, for single shipment, all interconnections between modules are made at the factory, and all such modules are fastened together into one integral unit.

A HUB QUALITY-PRODUCED, 50th ANNIVERSARY DESIGN

Hub Electric Company, Inc. reserves the right to make engineering refinements on all its products. Dimensions and other details are subject to change. When dimensions are critical, detailed drawings should be obtained from the factory.

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