

UNI-REACTOR CONTROL

For the precise regulation of tungsten auditorium or presentation lighting of Theatres, Cinemas, Lecture Halls, etc., from a small remote intensity control.

The wall mounting Unit Assembly for the Saturable Reactor dimmer is designed for connection in series with a distribution board and the lighting load, and may therefore be placed adjacent to lighting unit, or units, controlled.

The Standard Unit Assembly contains the necessary metal rectifiers, a suitable relay, and a rewirable fuse to protect the control circuit only. Complete with all internal wiring to engraved terminals, and fixings for Control Reactor and Saturable Reactor (priced separately). Each of these units can provide the necessary control to one Slave Unit Assembly which is similarly constructed but does not require a Control Reactor.

Wall mounting, sheet steel Control Boxes are available for single Standard Units, with or without Slave Unit, or for 2 or 4 units. Each way is fitted with a rotary intensity control with integral switch, which, by means of the relay, opens the phase supply to the Saturable Reactor at the zero position of the engraved scale. Internal wiring to engraved terminal block.

For 220-250 volt A.C. only.

Ref.	Description	Dimensions in inches			Weight lbs.	£ s d		
		Width	Height	Depth		£	s	d
506	Standard Unit Assembly	15	20	9½	30	22	10	0
505	Control Reactor for above	—	—	—	8¾	6	3	0 nett
507	Slave Unit Assembly ..	15	20	9½	30	21	10	0
501	Control Box 1 way ..	4	4	3	1½	3	0	0
502 2 way ..	7½	4	3	3	5	10	0
504 4 way ..	7½	8	3	4½	10	0	0

Reactor Dimmers are scheduled on page 12 above.

PRESET DIMMER CONTROL SYSTEMS

Where the installation requires over 54 dimmers presetting becomes essential. That is to say it must be possible to set up the next complete lighting charge, however, complicated, while the previous lighting is actually in use. Strand Electric have two principal systems for doing this, both of which are briefly outlined below. Schemes are specifically designed to suit customers' individual lighting installations.

SYSTEM SR/PRESET

This all-electric system has been introduced to cover the gap between the simple Saturable-Reactor (above), and the Console-Preset (on the right) with its magnificent facilities for the larger theatre or television studio.

On installations of 54 control channels or over dimmer presetting is essential. On an all-electric system this can only be done by fitting a second dimmer lever to each circuit. Either or both lighting effects on the levers can then be brought into play by operating the master dimmers.

It is not possible to do this effectively with simple reactor systems because the control currents are relatively heavy. On the other hand, it is not desirable to introduce electronics or other devices requiring some degree of expert attention for this class of installation. In consequence a robust system without any moving parts and requiring a minimum of components in a simple circuit has been produced. Strand Electric are confident that this system fulfils a real need by providing a control with excellent facilities for up to 96 dimmer channels which will nevertheless give trouble free service in most regions of the world and which will require minimal maintenance of an elementary order.

SYSTEM CD CONSOLE-PRESET

This system, and its television variants, combines the rapid one man operation of the Strand Light Console installed at Drury Lane Theatre, the London Palladium, etc., with the excellent facilities for precise dimmer presetting of the multi-preset system as at Stratford-on-Avon.

The Control Desk works in conjunction with a Dimmer Bank consisting of electro-mechanically driven Transformer or Resistance dimmers operated through a clutch servo by a single motor.

The system aims to provide dimmer presetting without the host of miniature repeat levers hitherto necessary on multi-preset controls. This is achieved by making use of the inertia inherent in an electro-mechanical system, i.e., dimmers do not require to be connected to levers at the control desk merely for the purpose of retaining their position. Thus, the operator is concerned only with those circuits at a particular cue which have to change. This number is very much less than the number which comprise a particular lighting effect, therefore far less setting up of dimmer levers is required.

To pick out which circuits shall change there are at least 14 sets of push buttons with instant memory action to capture the combinations required. These circuits can also be selected by manually using the finger-tip tablet switches along the top of the desk.

There can be one or two sets of dimmer levers on which to preset intensity. An aid to rapid operation is that dimmer levers do not have to be used at all for comparatively coarse changes, it is only necessary to use any memory push and the "raise" or "lower" push while watching a master dial.

Also combined in the desk are all the required switching operations. This system is fully described in leaflet H.84.

