

### Strand Controlled Rectifier 'Thyristor' Racks

All the above systems, except those such as the TEN/20, which include their dimmers as an integral part, are designed for use with either Strand JTM racks or Strand PTM, or indeed a mixture of both. The dimmers employ pairs of Thyristors connected back to back to pass full wave AC in the full-on position. Regulation is load independent. All Strand Thyristor dimmers include 'clean-up' to remove interference and filament noise.

Strand standard racks contain individual dimmer modules of 2 or 5 kW in the 200 volt range or 3 and 6 kW in the 100 volt range (higher wattages available). For the vast majority of installations these are supplied fixed as JTM racks. This is the economic method and although servicing involves shutting down a rack for a few minutes instead of the instant changeover of a plug-in module, thyristor dimmers have proved very reliable indeed. Racks are complete with mains distribution and fuses. For a plug-in module there is the PTM rack.

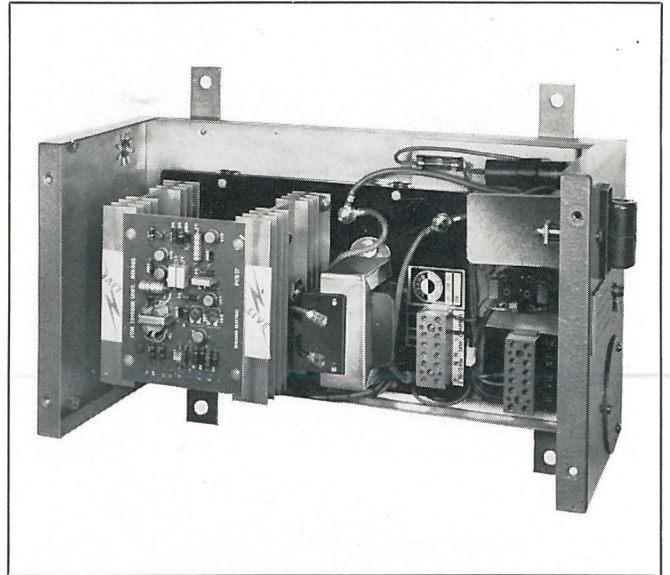
Strand JTM racks are available as 20-channel or 10-channel units. Dimmer modules can be omitted to make up lesser numbers, but the rack wiring is complete and it is recommended that the control console has the full complement of levers to allow future extension.

JTM 20. 38" wide × 11" × 58" Weight: 120 lb.

JTM 10. 26" wide × 11" × 58" Weight: 80 lb.

PTM 20. 42" wide × 21" × 74" Weight: 620 lb.

(Weights are approximate only as they vary somewhat with wattage per channel and degree of clean-up).



### Automatic Dimmers and other Unit Thyristors

Type PTU. Up, Down and Stop push button dimmer with external presetting for an intermediate level and internal adjustments to regulate independently the speed of raising and of lowering lights. Can operate in conjunction with any number of push button stations, no series circuit loops being required. Available as 2 kW or 5 kW\* unit in sheet metal case 15 $\frac{3}{4}$ " wide × 6 $\frac{1}{2}$ " deep × 11" high overall. Up to five 5 kW slave units (type TU) similar in size can be controlled from one PTU unit, making a total load of 30 kW which can be fed off 1, 2 or 3 phases as desired.

Type CYU. Automatic cycle to mix three or four colours with complete overlap to ensure full range of colour mixing. Timing adjustable. Available as 2 kW or 5 kW per colour in wall mounting sheet metal case 21" wide × 8" deep × 34 $\frac{1}{2}$ " high for three or four colour. The load per colour can be increased up to 20 kW by adding three further assemblies, similar in size. These units use a switch to fade in or out the dimming cycle, to begin and conclude. Should a number of operational points be required, push button type CYU/P should be ordered.

Where automatic control is not required and yet the number of dimmer channels is insufficient to justify a normal stage lighting control panel, compact dimmer control boxes (photo page 6) for 1 or 2 or 4, 6, and 8 or 10 channels can be supplied for semi-flush wall mounting.

\*A similar range but 2kW or 3kW is available for 110/120 volts, 60 cycles

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