

Rank Strand Electric,
P.O. Box 70,
Great West Road, Brentford,
Middlesex, TW8 9HR.
Telephone: 01-568 9222 Telex: 27976

A Division of Rank Audio Visual Limited

220/240v
50Hz

Type TU, MTU and PTU Thyristor Unit Dimmers

These remotely controlled Thyristor dimmers in individual wall-mounting enclosures are for the precise intensity control of 220/240v tungsten filament lamps for auditorium, presentation and other forms of architectural lighting.

Each rugged and reliable dimmer is complete with a substantial inductive filter and is rated for the full tungsten surge current and for continuous use at any intensity level.

The various types provide different control facilities. A single load circuit, to be controlled by a remote dimmer lever requires a Type TU dimmer. Two or more load circuits, either on the same or different phases of the supply, require one Type MTU and Type TU for additional load circuits – these can be controlled either collectively from one remote dimmer lever, or by individual levers. Wherever control is required from more than one location the auto-timed Type PTU, with or without Type TU slave dimmers for additional load circuits, allows convenient Up, to a Preset Intensity, or Down control from each and every set of parallel – connected push buttons.

Specification

Construction

Wall-mounting enclosure with external fixing lugs and cable entry plate on the right hand end. Internal access to the pressure-pad terminals, for supply, load and control external connections, is by temporary removal of the front cover.

Fuse Protection

Single pole shrouded-contact fuse holder including HRC fuse-link providing close-excess current protection.

Ventilation

Convection ventilated through close mesh grilles at the top and bottom. The total heat dissipated does not exceed 2% of the maximum load capacity. Exceptionally, in confined spaces, external ventilation may be necessary to ensure the ambient temperature does not exceed 35°C.

Thyristor Dimmers

Temperature and long term stable printed circuit trigger card for the pair of Thyristors which are surge and continuously rated for 220/240v tungsten filament lamp load not exceeding the maximum rating of the dimmer.

Filtering

Each dimmer module contains a substantial inductive filter and also RFI suppression.

Dimmer Types

TU 50

5000W maximum at 220/240v. Basic unit dimmer for a single load controlled by a dimmer lever; also used as a slave unit for multiple circuit installation.

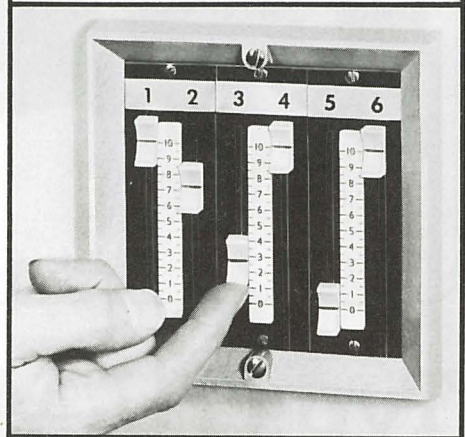
MTU 50

5000W maximum at 220/240v. As TU above, but with the larger built-in power supply necessary for multiple-circuit installation.

PTU 50

5000W maximum at 220/240v. With additional printed circuit to provide automatic Up, to Preset intensity, or Down control initiated by external sets of three momentary-contact pushes. Up timing set for 7 seconds, but internally adjustable for 5-15 seconds; Down timing set for 15 seconds but internally adjustable for 15-30 seconds. Preset intensity determined by local rotary control on right-hand end.

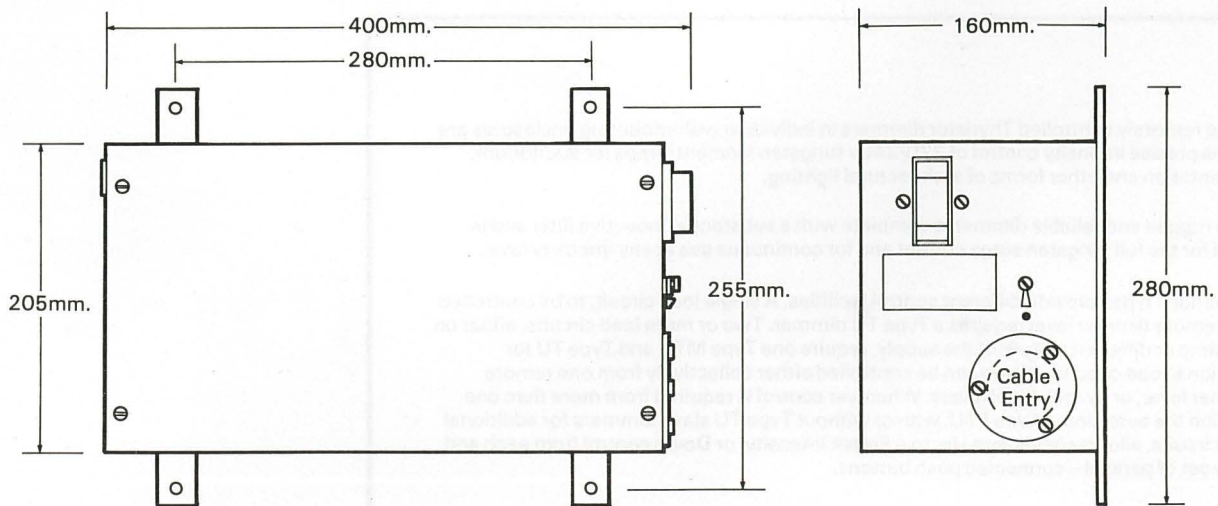
Dimmer Lever Boxes



Sheet metal box with cable entry knock-outs, and die-cast escutcheon plate fitted with precision black mouldings with wirewound potentiometer and linear scale. All boxes 150 mm high and 60 mm deep with internal wiring to pressure-pad terminal block.

1-lever control box, 110mm wide 05 00 116
2-lever control box, 110mm wide 05 00 124
4-lever control box, 150mm wide 05 00 140
10-lever control box, 225mm wide 05 00 203

Scale 1:5



Weights

Type TU 50, Weight 4.5 Kg
Type MTU. 50, PTU.50: Weight 5.5 Kg.