

# EDISWAN

## Mercury Vapour Relay Type MR/A.C.1.



### RATING.

Heater Volts	...	...	...	...	...	4.0
Heater Current	...	...	...	...	...	1.2
Maximum Anode Current (ma)	...	...	...	...	...	150
Maximum Anode Voltage	...	...	...	...	...	1,000
Control Ratio (approx.)	...	...	...	...	...	20-1

### DIMENSIONS.

Overall Length (including pins)	..	...	...	...	m.m.
Overall Diameter	...	...	...	...	m.m.

**PRICE £1 - 15 - 0**

### GENERAL.

The MR/A.C.1 is a grid controlled mercury vapour tube with an indirectly heated cathode which is connected to the centre pin of a standard 5-pin base.

The principal application of the relay is in the control of circuits by the variation of grid potential of the tube. In this connection it is important to note that the current discharge through the tube, once started, cannot be cut off except by reduction of the anode voltage below the ionisation value of the mercury vapour (about 15-25 v).

The MR/A.C.1 is particularly suited for use in linear time base circuits for Cathode Ray Oscillographs for wave-form investigation, Television scanning, etc.



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R763-10A

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## MR/A.C.1

### OPERATING NOTES.

1. The tube should be mounted in a well-ventilated position so that the temperature does not rise appreciably during operation.
2. The cathode should attain full operating temperature before the anode voltage is applied. Attention to this point will considerably prolong the life of the tube.
3. A resistance should be connected in the anode circuit in order to limit the peak current to 150 ma. on discharge.
4. A series grid resistance should also be used to limit the flow of grid current when the tube strikes.
5. When first switched on, the tube may require a few minutes for the mercury vapour to reach the correct pressure for ionisation to occur.

### TIME BASE CIRCUIT.

A suitable circuit for the production of a linear time base for cathode ray circuits is given below. The diode recommended for use with the relay is the Ediswan CR.2.

