

Model : **TPVMR-2D**

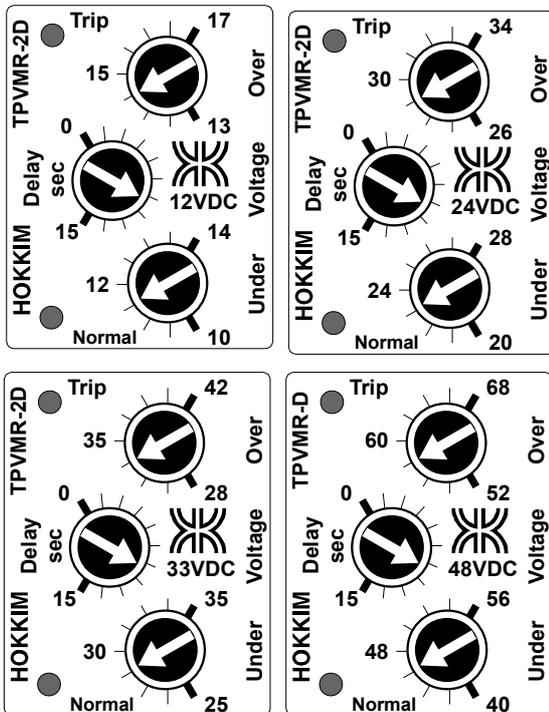
Function : Precision DC Voltage Monitoring Relay with Delay(3 external relays driver)

Utilization:

The TPVMR-2D monitors under and over-voltage DC supplies for example voltage of a battery. It has three adjustable settings: one for under-voltage, one for over-voltage and one for trip time delay. The relay trips if the voltage of the monitored mains drops below or rises above the respective preset points. There are three setting ranges, for nominal 12VDC, 24VDC and 48VDC. For 12VDC: the under-voltage setting is from 10V to 14V and the over-voltage setting is from 13V to 17V. For 24VDC: the under-voltage setting is from 20V to 28V and the over-voltage setting is from 26V to 34V. For 48VDC: the under-voltage setting is from 40V to 56V and the over-voltage setting is from 52V to 68V.

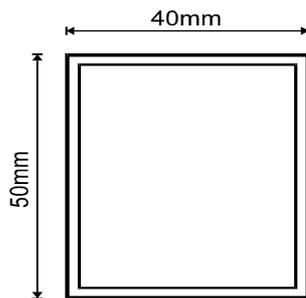
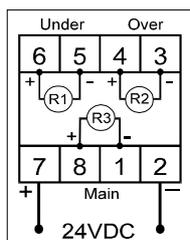
With these ranges, the TPVMR-2D is suitable for monitoring both lead-acid or ni-cd batteries. Trip time delay can be set at 0 to 15 sec only for the main driver. The delay setting is important to prevent false alarms owing to momentary voltage drops under heavy short term loads such as when cranking the generator.

The unit comes with 3 external relay drivers for under, over and main. Note that the under and over driver does not have delay. There are also 2 LEDs; green to indicate normal condition and red to indicate trip condition.



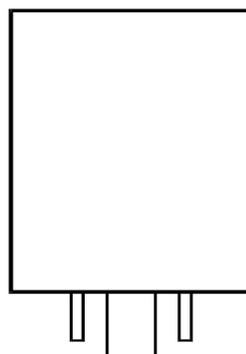
Technical Data

Supply Voltage	: <input type="checkbox"/> 48VDC	<input type="checkbox"/> 24VDC
	<input type="checkbox"/> 12VDC	
Consumption	: 1VA	
ON-TRIP Hysteresis	: 2%	
Accuracy	: $\pm 0.5\%$	
Adjustment	12VDC	: Under 10-14V Over 13-17V Delay 0-15 sec.
(main)	24VDC	: Under 20-28V Over 26-34V Delay 0-15 sec(main)
	48VDC	: Under 40-56V Over 52-68V Delay 0-15 sec.
Indication		: Green LED (Normal) Red LED (Trip)
Output drivers		: Open Collector 200mA Max.
	R1	: 5-6 Under (Inst.)
	R2	: 3-4 Over (Inst.)
	R3	: 1-8 Main (0-5sec.)

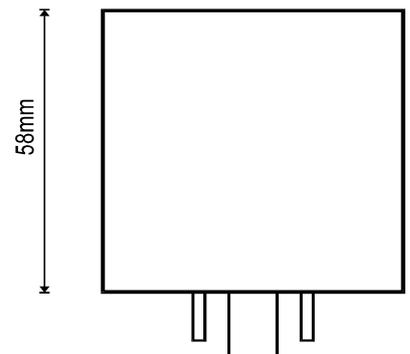


Dimensions

Top View



Front View



Side View