


PA310 Manual Power Controller with pre-set outputs

<p>Features</p> <ul style="list-style-type: none"> ❖ 3 pre-set voltage outputs ❖ Suitable for up to 4KW heater at 240V ❖ High reliability snubberless triac used ❖ Low cost & compact 	
<p>Applications</p> <ul style="list-style-type: none"> ❖ Short wave infra-red lamps ❖ Fan brown heater elements ❖ Lighting 	<p>Dimensions</p> <p>H = 55mm, W = 55mm, D = 33mm. Shaft dia = 6.3mm. Shaft protrusion from panel = 20mm. Panel thickness = 2.5mm max. Fixing hole dia = 10mm. Cable length = 430mm min.</p>

PA310 manual control phase angle energy regulator is a compact, low cost unit for controlling the power into a 120V or 240V resistive load. To reduce stress and increase reliability it uses a most advanced 25A, high surge rating triac. The controller is enclosed with its heatsink and has an integral 4 output selective range switch for manually controlling the load power. In order to have the maximum control power, a PA310 must be mounted on to a steel or aluminum panel for dissipating the heat generated by the controller. The unit metal fascia temperature must not be higher than 70 deg. C.

Notes.

This product is offered for use to professional installers and the product is to be installed by suitably qualified personnel in accordance with current industrial electrical/mechanical safety and EMC standards. Installation to be in accordance with the current edition of IEE wiring regulations BS7671: 2001, 16th edition.

* This product is deemed a component only for professional assemblers for incorporation in to apparatus and systems or installations for which its own EMC and safety standards will apply and for which Powerlink is not responsible.

* For further information see the Product Manual.

<p>Ratings.</p> <table border="1"> <thead> <tr> <th>Max</th> <th>I_{max}</th> <th>Panel Size</th> </tr> </thead> <tbody> <tr> <td>1.4kW</td> <td>6A</td> <td>none</td> </tr> <tr> <td>2.8kW</td> <td>12A</td> <td>2 X 100 X 100 mm</td> </tr> <tr> <td>4kW</td> <td>17A</td> <td>2 X 170 X 170 mm</td> </tr> </tbody> </table> <p>Note: Heatsink compound must be applied between a PA310 metal fascia and the panel in order to meet the specified current ratings.</p>	Max	I _{max}	Panel Size	1.4kW	6A	none	2.8kW	12A	2 X 100 X 100 mm	4kW	17A	2 X 170 X 170 mm	<p>Specification.</p> <table border="1"> <tbody> <tr> <td>Supply voltage</td> <td>240V ac 50 or 60Hz</td> </tr> <tr> <td>Max current rating</td> <td>17A @70°C, with correct panel size</td> </tr> <tr> <td>Max triac rms current</td> <td>25A</td> </tr> <tr> <td>Peak surge current</td> <td>262A</td> </tr> <tr> <td>Min holding load current</td> <td>30mA</td> </tr> <tr> <td>Repetitive peak voltage</td> <td>600V</td> </tr> <tr> <td>*Output AC voltage at 240V supply +/- 5%</td> <td>Pos'n 0 = 0V. Pos'n 1 = 170V Pos'n 2 = 207V. Pos'n 3 = 235V</td> </tr> </tbody> </table> <p>* Output AC load voltage is measured by a true RMS multi-meter with a 240V 100W lamp load.</p>	Supply voltage	240V ac 50 or 60Hz	Max current rating	17A @70°C, with correct panel size	Max triac rms current	25A	Peak surge current	262A	Min holding load current	30mA	Repetitive peak voltage	600V	*Output AC voltage at 240V supply +/- 5%	Pos'n 0 = 0V. Pos'n 1 = 170V Pos'n 2 = 207V. Pos'n 3 = 235V
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