

PRODUCT DATA SHEET: MODEL 600U



Product description:

The Model 600 Ultra Flame Rod Signal Processor is a reliable flame monitoring system based on the proven principle of measuring rectified current flow through a flame rod when a flame touches it.

An AC voltage is applied to the flame rod; when a flame touches the rod, a rectified current flows from the rod through the flame to the ground of the burner.

The Model 600 Signal Processor measures the rectified current and closes the flame relay if the current exceeds the value for the flame-on set-point.

If the current flow drops below the value for the flame-off set-point, the flame relay opens. A visual display indicates whether or not the flame relay is on and the relative signal strength, i.e., the DC current flow through the flame.

SPECIFICATIONS:

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| ELECTRICAL | Primary Input Power | 85 to 132 VAC, or 170 to 264 VAC, 50 or 60 Hz |
| | Input Current, Monitoring only | .07 A at 115VAC, .035 A at 230 VAC |
| | Input Current, Ignition on | .3 A at 115VAC, .15 A at 230 VAC plus current to ignition transformer (5 AMPS MAX.) |
| | Ignition Command Input | 12 to 50 VDC or 85 to 264 VAC, 50 or 60 Hz (using labeled DC and AC inputs) |
| | Command Current | .02 A DC at 50 VDC, .015 A RMS at 230 VAC |
| OUTPUTS | Flame Relay | DPDT contacts, rated 5A at 125 VAC, 277 VAC, and 30 VDC |
| | Ignition Transformer Relay | DPST contacts, rated 5A at 125 VAC and 250 VAC |
| | Ignition Coil Drive | A capacitance of 4.4 uF is discharged from 230 VDC through the ignition coil tap at the AC line rate by a 4A, 400 VRM SCR |
| ENVIRONMENTAL | Ambient Temperature | Controller (32F° to 140°F) 0°C to 60°C |
| SAFETY | Flame rod voltage | 175 VAC at 115/230 VAC input |
| | Flame rod current (not firing) | Maximum current to ground <.5ma |
| WEIGHT | Shipping Weight | 2 lbs. (0.9 Kg.) |
| DIMENSIONS | Single Unit Carton | 9 x 7 x 6 ½ inches |
| APPROVALS | CSA Special Acceptance Certification is available on request for this product. Additional charges will apply. | |