



IRIS Systems Inc.
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PRODUCT DATA SHEET: MODEL 600U

Product description:



The IRIS 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:

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.	