

Signal Processors Model 600U

Rectification based signal processor to be used with Flame Rods to detect presence of a flame.

Overview



The 600U Ultra Flame Rod Signal Processor is a reliable flame detecting system which measures rectified current flow through a flame rod when in contact with a flame. When the rectified current is above the preset value, the flame relay is energized. LEDs indicate rod fouled and rod grounded and a display provides a visual indication of the flame signal and flame relay to show system status.

Features & Benefits:

- Capable of connecting to ignition coil or ignition transformer
- When using with an ignition coil, the flame rod serves as an ignition rod
- Six numeric LEDs arranged vertically provides a visual display of flame signal
- High/low gain plug in selection
- Flame rod grounded indication
- Flame rod fouled indication
- Flame rod fault indication

Specifications

IGNITION, FLAME & SUPERVISION SPECIFICATIONS

Ignition Transformer Relay

- DPST contacts, rated 5 A at 125/250 VAC

Ignition Command Input

- 12 to 50 VDC or 85 to 264 VAC

Flame Relay Output

- DPDT contacts, rated 5 A at 125/277 VAC and 30 VDC

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- 0 to 60 deg C (32 to 140 deg F)

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Ignition Modes Supported

- Flame rod only, flame rod with ignition coil, flame rod with ignition transformer



IGNITION & FLAME-RELATED CONTROL

Ignition Coil Drive

- 4.4 μF capacitor discharged at line frequency via 4 A, 400 V SCR

MEASUREMENT, ACCURACY & SENSING

Sensitivity Levels

- 4 selectable gain levels via jumper

ELECTRICAL SPECIFICATIONS

Flame Rod Voltage

- 175 VAC

Flame Rod Current

- < 0.5 mA (no flame)

MEASUREMENT & SENSING CHARACTERISTICS

Detection Method

- Flame rod sensing via rectified current flow

CONTROL, SOFTWARE & USER INTERFACE SPECIFICATIONS

Signal Display

- 6-digit LED bar graph (1-6) for flame strength

INSTALLATION & MOUNTING SPECIFICATIONS

Mounting Types

- 35 mm DIN rail

Filters

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