

IRIS



Watchdog III

Flare Stack Pilot Monitoring System
Guarding Against the Venting of Hazardous Gases

- Monitors Pilot and Indicates Flaring
- Continuous Surveillance
- Easy to Install with no Plant Shutdown
- UV Sensor - Not Affected by the Sun
- 1,000 ft. Range
- Built Rugged to Last

**Replaces or Supplements
Thermocouples or IR Systems**

- Proportional 4-20mA Output
- Ground Mounted
- No Moving Parts Ensures Reliability
- Light weight and Low Power



WORLD LEADER IN FLAME MONITORING

SPECIFICATIONS

ELECTRICAL

AC Power: 85 to 264VAC, 47 to 440 Hz
0.3A RMS Maximum with viewing head connected

DC Power (Backup) 22 to 24VDC, 300 mA with viewing head connected
DC Power (As Main Power) 22 to 26VDC, 300 mA with viewing head connected

ENVIRONMENTAL

Model P222 Signal Processor: Ambient Temperature: 0° C to 60° C (32° F to 140° F)

Model S256B Viewing Head: Ambient Temperature: -40° C to 80° C (-40° F to 176° F)
Viewing head housing: NEMA type 4X

OUTPUTS

Relay R1 (Early Indication): 2 Form C contacts
Contact Ratings: 5A at 30VDC or 250VAC

Relay R2 (Delayed Indication): 1 Form C contact
Contact Ratings: 5A at 30VDC or 250VAC

Analog Flame Signal: 0 to 19.8 mA output for remote meters, or
4 to 19.8 mA output for DCS, etc. (360 ohm max resistance)

Power to Viewing Head: 24 to 26VDC, 150 mA (powered from signal processor)
Fused with self-resetting fuse at 0.25A

INPUTS

Manual Clear: Connect to GND via remote switch to clear
Channel Select: Connect 24VDC to select channel B

SERIAL COMMUNICATION

RS-422/485 (Differential): 4800, 9600, 19200 or 38400 baud (User selected)

VIEWING HEAD

Distance from pilot: Up to 1,000 ft line of sight

Field of view: 40 ft Target diameter at 1,000 ft.

Cable Requirements: 4 Conductor, #16 AWG or #18 AWG,
one wire shielded with braided shield for flame signal.
IRIS C328 or C330 cable recommended.

IRIS 
Systems Inc.

Sales and Applications

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