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)
    DC Power (As Main Power)

22 to 24VDC, 300 mA with viewing head connected
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):
        Contact Ratings:

2 Form C contacts
5A at 30VDC or 250VAC

    Relay R2 (Delayed Indication):
        Contact Ratings:

1 Form C contact
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:
    Channel Select:

Connect to GND via remote switch to clear
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.