

Flare Stack Monitoring System Watchdog III

Remote mounted UV viewing head that detects the presence of a flare stack flame to insure unburned toxic waste gasses are combusted and not released into the atmosphere.

Overview



Built rugged to last, the Watchdog III BE Flare Stack monitoring system reliably monitors flames from remote locations under difficult conditions such as dust, fog, heavy rain, snow and background sun rays. The ability to connect to an existing ignition system, and its ground mounted design, make it easy to install and service without flare shut down, saving valuable time and money.

Features & Benefits:

- System consists of a P222 signal processor and S256BE viewing head with a 50 foot interconnecting cable
- Not affected by the sun which allows viewing head to be located anywhere around the flare stack
- Easy to set up with multiple LED's and pushbuttons
- Lightweight and low power consumption
- No moving parts ensures reliability
- Easy installation and service with no plant shut down or flare interruption required
- S256BE ground mounted viewing head has a 1000 ft. line of sight range with 40 ft. diameter target (at 1,000 ft.)
- P222 signal processor can be remotely mounted

Specifications

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- Processor: 0 to 60 deg C (32 to 140 deg F)
- Viewing Head: -40 to 80 deg C (-40 to 176 deg F)

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Relay Contact Ratings

- 5 A at 30 VDC or 250 VAC

System Components

- S256BE Viewing Head, P222 Signal Processor, ASY55XBE Cable Assemblies

MECHANICAL DESIGN & HARDWARE DETAILS

Viewing Head Housing

- NEMA 4X/IP66



Cable Type

- 4-conductor, #22 AWG, braided shield (Honeywell C330S recommended)

COMMUNICATION & INTERFACES

Serial Communication

- RS-422/RS-485, Modbus RTU, 4800-38400 baud

INPUTS, OUTPUTS & INTERFACE SIGNALS

Remote Meter Output

- Configurable 0 to 20 mA or 4 to 20 mA

ELECTRICAL SPECIFICATIONS

Viewing Head Power

- 24 to 26 VDC, 150 mA (via 0.25 A self-resetting fuse)

Power Supply

- 85-264 VAC, 47-440 Hz or 22-26 VDC, 300 mA max (Processor)

SAFETY, PROTECTION & RELIABILITY

Ingress Protection

- IP66 (Viewing Head)

IGNITION, FLAME & SUPERVISION SPECIFICATIONS

Flame Relay Output

- Processor - R1: DPDT, Adjustable 0 to 60 s delay (pilot re-ignition)
- R2: SPDT, Adjustable 1 s to 3600 s (alarm delay)

MECHANICAL DESIGN, LAYOUT & CONSTRUCTION OPTIONS

Viewing Distance

- Up to 1000 ft (300 m) line of sight

INPUTS, OUTPUTS & SIGNAL INTERFACES

Analog Outputs

- 0 to 19.8 mA or 4 to 19.8 mA (360 Ohm max)

MEASUREMENT & SENSING CHARACTERISTICS

Field of View

- 40 ft (12 m) target diameter at 1000 ft

DIMENSIONS & WEIGHT

Dimensions

- Processor front: 4.25 x 7.19 in
- Viewing head length: 20.25 in (514 mm)

STANDARDS & CERTIFICATIONS

Approvals

- CSA 213-M1987, CSA 142-M1987, WEEE Directive - 2012/19/EU - Waste Electrical and Electronic Equipment Directive



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