

# EGF Flame Tracker\*

## Fast flame supervision for enclosed ground flare pilots

### Improved safety

Reuter-Stokes ultraviolet flame sensor constantly monitors the flare pilot, ensuring it is ready for a flare event. Solid state technology provides rapid sensor reaction. The EGF Flame Tracker responds in seconds to changes in the flame. Reuter-Stokes silicon carbide technology is designed for use with multiple fuels and can even tolerate partial mixtures of hydrogen. The flare is key to plant safety and the pilot is key to flare operation. Make sure yours is always ready with EGF Flame Tracker.

### Advantages

#### High reliability

Reuter-Stokes has been performing flame supervision for over 23 years in extremely high temperature and high vibration environments. EGF Flame Trackers are built for high reliability in harsh environments. The sensor is hermetically sealed, ruggedly built, and needs no external cooling. The 4-20 mA current loop output is an industry standard for flame sensing and is robust in the presence of electromagnetic interference (EMI).

#### Restored confidence

Know right away that your pilot flame is lit. EGF Flame Tracker is an optical UV sensor that responds within seconds. Its low light detection capabilities make it applicable to pilots that are up to 40 feet long. Thermocouples may make you wait a quarter hour and that's too long. Eliminate the guesswork with a sensor that responds immediately.

#### Easy maintenance

EGF Flame Trackers are simple to install. They are attached to the back end of the pilot opposite the flame where they are easily accessible. Because they are outside the enclosed ground flare, there is no need to pull the entire pilot to install an EGF Flame Tracker. The installation is almost as easy as changing a light bulb!

### Performance benefits

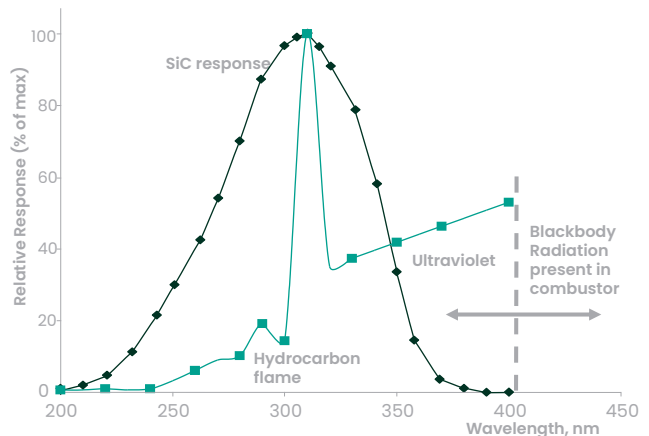
- Provides reliable operation when using almost any fuel
- Responds quickly to changes in the pilot flame
- Easy installation outside the enclosed ground flare
- High sensitivity for low light operation

### Specifications

Sensor responsivity and hydrocarbon flame emission spectrum.



### Spectral response



#### Flame emission

#### EGF Flame Tracker response

Peak sensitivity closely matches the key flame peak at 310 nm.

#### Operating

Power requirements	24 VDC nominal, 12-30 VDC @ 100 mA
Output	4-20 mA
Response time	< 12 seconds
Temperature range	-40°C to +85°C

#### Material

Body mount	AISI 316 stainless steel
Housing	AISI 304 stainless steel (sealed and Argon filled)
Mechanical interface	3/4" NPT female
Electrical connector	MIL-C-38999 Series III size 15 (5pin)
Sensor	Silicon Carbide (SiC) photodiode

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