Flame Tracker
Dry 325

Trusted to manage flames in some of the harshest environments for nearly a quarter of a century

Improved safety in harsh environments
Hot end operates up to 325°C
Know with confidence that burners are lit. Our Reuter-Stokes Flame Tracker Dry 325 senses the ultraviolet (UV) light produced by a flame and signals whether a flame condition exists. This rugged design provides continuous flame supervision in the harshest environments. 4-20 mA current loop output is compatible with multiple control systems and has noise immunity in industrial environments.

High sensitivity, fast response
• Proven SiC technology has high sensitivity to longer UV wavelengths and is not susceptible to black body radiation
• Rapid response time of less than 175 milliseconds. Similar products may take as long as 1.5 seconds to respond, which creates a potentially undesirable situation
• Built with the same proven sensing technology that has worked in the Flame Tracker for nearly a quarter of a century
• Analog output with a wide dynamic range
• Patented circuitry

Reduced maintenance
• Mineral insulated cable eliminates the need for electrical conduit and the use of fragile fiber optic cable
• Ready to install, no programming necessary

Safety and reliability
• Safety. Hazardous area certifications including North America, ATEX, IECEx, and multiple country specific certifications
• High reliability. Ruggedized construction, high temperature materials, SIL 2 rated
• Industry standard output signal (4-20 mA)
• Fuel flexibility operates reliably with many fuels
• Ruggedized mineral insulated cable
Specifications

Sensor Responsivity and Hydrocarbon Flame Emission Spectrum

Spectral response

Flame emission

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

System configuration

Operating

- Power requirements: 24 VDC nominal, 12-30 VDC @ 100 mA
- Output: 4-20 mA (a module to convert output to other controller inputs is available)
- Response time: < 175 milliseconds
- Operating temperature range:
  - Cool end: 40°C to 150°C (104°F to 302°F)
  - Hot end: 40°C to 325°C (104°F to 617°F)
- Survivability temperature range:
  - Cool end: -51°C to 150°C (-60°F to 302°F)
  - Hot end: -51°C to 325°C (-60°F to 617°F)
- Process pressure: To 400 psig (2.8 MPa)
- Sensitivity: 5 mA @ 1x10¹⁰ photons/in²/sec. @ 310 nm

Material

- Body mount: AISI 316 stainless steel
- Housing: AISI 304 stainless steel
- Mechanical interface: 3/4" NPT female
- Sensing element: Silicon Carbide (SiC) photodiode

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