Reuter-Stokes
a Baker Hughes business

Flame Tracker Dry 325 (FTD 325)

Eliminate the risk of water leaks

Reuter-Stokes' Flame Tracker Dry 325 eliminates the need for water cooling lines or electrical conduits on new turbines and upgrades. This streamlines operations, reduces water maintenance requirements and simplifies outages, resulting in lower labor costs and shorter overall outage time.

Reliable, rapid response

The FTD 325 boasts a rapid response time of less than 0.175 seconds. Similar products may take as long as 1.5 seconds to respond. Ready to install, no programming necessary.

How is FTD 325 different?

Built on the proven Silicon Carbide sensing element used in the water-cooled Flame Tracker, the FTD 325 system takes advantage of a remote electronics configuration that places a sensing element capable of operation at temperatures up to 325°C in the hot end of the sensor.

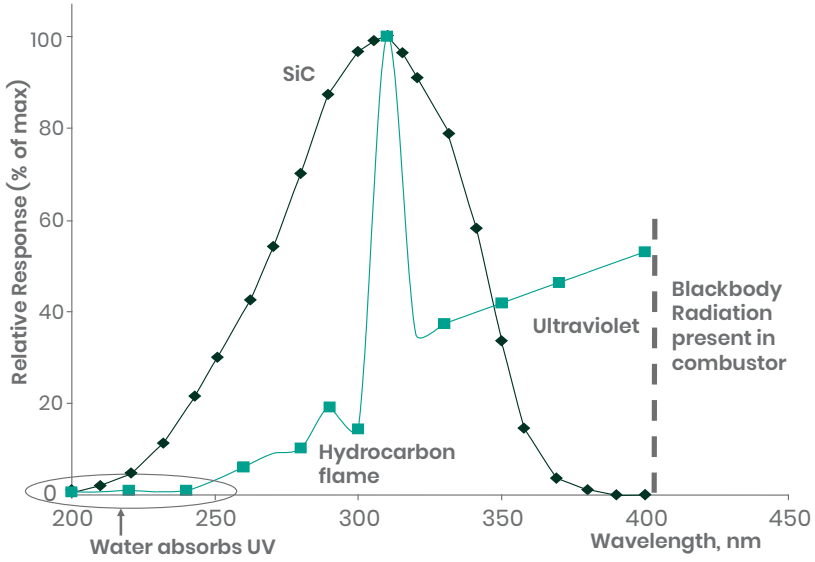
The temperature-sensitive electronics are moved to a low spot in the turbine compartment where temperatures are below 140°C operational limits. The electrical signal from the hot end is transmitted to the cool end via a 30-foot long mineral-insulated cable.

Operating parameters	
Power requirements	24 VDC nominal, 12-30 VDC @ 100 mA
Output	4-20 mA (module to convert output to other controller inputs is available)
Response time	< 0.175 seconds
Temperature range	Cool end: -51°C to 140°C (-60°F to +284°F) Hot end: -51°C (-60°F) to 617°F)
Process pressure	To 400 psig (2.8 MPa)
Sensitivity (Standard) **Sensitivity (ILG)**	5 mA @ $1x10^{10}$ photons/in^2/sec. @ 310 nm 6.5 mA @ $1x10^{10}$ photons/in^2/sec. @ 310 nm

Material specifications	
Housing material	300 series stainless steel
Mechanical interface	3/4" NPT female
Sensor	Silicon Carbide (SiC) photodiode

Part numbers	
RS-FS-9009-03	NA Class 1 Division 2, ATEX Zone 2
RS-FS-9010-03	NA Class 1 Division 1, ATEX Zone 1
RS-FS-9009-03-173	Shortened 4.4 meter MI cable for NovaLT gas turbines; NA Class 1 Division 2, ATEX Zone 2 (ILG)
RS-FS-9009-03-25X	30-foot cable (9.1 m), NA Class 1 Division 2, ATEX Zone 2 (ILG)
RS-FS-9010-03-25X	30-foot cable (9.1 m), NA Class 1 Division 1, ATEX Zone 1 (ILG)

Spectral response



— **Flame emission**

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

What is ILG?

Increased Low Gain (ILG) technology provides "flame on" signal at a lower light threshold.

This allows for extra sensitivity to low intensity light, detecting dim flames caused by obstructions, condensation, or deposits on the sensor window.

Increased sensitivity results in improved function in applications with obscured sight tubes, fouled lenses, and other conditions that would reduce the amount of light reaching the sensor.

Contact us

Reuter-Stokes is dedicated to providing high quality, high reliability equipment to our customers.

Contact us today to talk to an expert about your flame sensing needs.

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