

FT Lite Data Sheet

The FT Lite sensor provides reliable flame supervision for fired equipment under harsh environmental conditions. The FT Lite sensor's optical photodiode is designed for use with multiple fuels and can even tolerate a high level of hydrogen. The UV sensing capability and rugged construction provide a fast, reliable flame response for safer operation of valuable fired equipment.

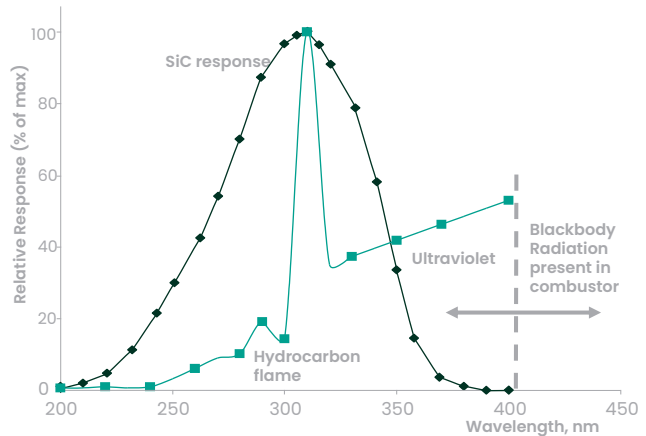
Advantages

- Track Record – Based on mature Flame Tracker technology with over 500 MM hours of operation
- Rugged – Flame sensor can handle high temperature, high pressure, and high vibration
- Cost Effective – Affordable yet reliable performance across numerous flame monitoring applications
- Simple output – industry standard 4-20 mA current loop

Specifications

Sensor Responsivity and Hydrocarbon Flame Emission Spectrum

Spectral response



— Flame emission

— Ft Lite sensor 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 | < 100 ms |
| Temperature Range | -40 to 248 °F (-40 to 120 °C) |
| Process Pressure | To 100 psig (0.7 MPa) |

Material

| | |
|----------------------|--|
| Body Mount | AISI 316 Stainless Steel |
| Housing | AISI 304 Stainless Steel (sealed and Argon filled) |
| Mechanical Interface | 1" NPT female |
| Electrical Connector | MIL-C-38999 Series III size 15 (3 pin) |
| Sensing Element | Silicon Carbide (SiC) photodiode |