

OI-860 UV/IR Flame Detector

The Omniguard Model 860 UV/IR Flame Detector is a high-performance device that combines ultraviolet and infrared sensing for fast, accurate fire detection in industrial environments.

Key Features:

- Dual-Spectrum Detection: UV and IR sensing for early, reliable fire detection
- False Alarm Immunity: Patented algorithm reduces nuisance alarms while maintaining fast response
- Auto Self Test
- Flexible Configurations: Available for hydrocarbon-only or hydrocarbon and select non-hydrocarbon detection
- Alarm Integration: Provides immediate output for automated safety response
- Rugged Design: Built for durability in harsh environments with low maintenance
- 120 degree field of view

Applications:

- Oil and gas facilities
- Chemical processing
- Industrial manufacturing
- High-risk environments
- Critical infrastructure

The Model 860 delivers advanced, reliable flame detection with flexible configuration for comprehensive safety coverage.



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Product Specifications

Operating Temperature Range	-40 C to +85 C
Spectral Response	UV Peak Sensitivity of 0.22 microns; Infrared: Peak of 4.4 microns (Standard) and 2.9 microns and 4.4 microns (Dual Pass)
Nominal Voltage	24 VDC (Ripple Voltage <240mV)
Range	20 to 32 VDC
Power Consumption	Standby - 42mA, Standby 4-20mA - 47mA, Alarm - 57mA, Auto Test - 136mA, Manual Test - 160mA
Output	<p>Relays</p> <ul style="list-style-type: none"> • Relays (2): Fire, Trouble, Dry Contacts • Rated: 2 A at 28 VDC (Select NO or NC) • Fire Relay: Select Latching or Non-Latching • 20 mA = Fire • 16 mA = Warning Fire IR • 4 mA = Ready • 0 mA = Current Loop Fault
Digital Output	Programmable RS-485 Modbus Serial Output
Product Dimensions	4.5 in. H x 5.5 in. W x 6 in. D
Total Weight	5 lbs. Aluminum, 13 lbs. Stainless Steel
Conduit Entry	3/4-14 NPTF or M20-1.5
Optional Accessories	<p>Swivel Mount—No. 20856</p> <p>Portabel Test Unit—No. 545</p> <p>Air Shield Assy Kit—No. 23546</p>
Certifications & Approvals	<p>Class I, Division I, Groups B, C & D (Explosion Proof)</p> <p>Class II, Division I, Groups E, F & G (Dust Ignition Proof)</p> <p>NEMA 4X Weatherproof, Dust-Tight, Watertight</p> <p>CE0081 Ex II 2 G/D</p> <p>Ex db IIB+H2 T5 Gb for Gas</p> <p>Ex tb IIIC T100 C Db IP66 for Dust</p> <p>Ex d IIB+H2 T4 Gb for Gas</p> <p>Ex tb IIIC T1 135 C Db IP6X for Dust</p> <p>Copper-Free Aluminum Housing Conversion Coated to MIL-C-5541C. Class 3 (White) - Standard Stainless Steel Housing with Passive Finish per MIL-5-5002C, Type I (Optional)</p>