

KEEP A SHARPEYE ON YOUR SAFETY



## FLAME SIMULATOR

FOR ALL SPECTREX SINGLE IR FLAME DETECTORS

Providing foolproof, full loop testing of your flame detection system in Zones 1 and 2 hazardous areas at up to 4ft (1.2m) testing distance



To be fully secure against fire, flame detector self-testing is not enough. According to most local jurisdictional authorities and as required for SIL2 compliance, you need to test and ensure the integrity of your entire flame detection system at least once per year. That means performing a full system loop test from the detector, through the wiring to the controller, and up to the actual alarm notification. The only way to do so, without lighting a real fire, is with an external flame simulator.

# Complete End-to-End Testing Using our Flame Simulator

The FS-1300 FLAME SIMULATOR is the essential complimentary tool to the self-testing capabilities of your Sharpeye™ Single IR Flame Detectors. It brings fire prevention safety to a higher level by giving you the ability to fully test the operational readiness of your entire fire detection system:

- Test the integrity of all the system components: all alarm outputs, all cabling and connections and the fire alarm panel functionality.
- **Test clear line of sight:** By using the Spectrex Flame Simulator, you will ensure that no object is obstructing the field of view, and that the detector's window lens is not obscured.

Therefore, by simulating a fire that actually triggers the detector outputs, the model FS-1300 verifies the correct operation of the Single IR flame detector, performs an essential end-to-end loop test and verifies window cleanliness.

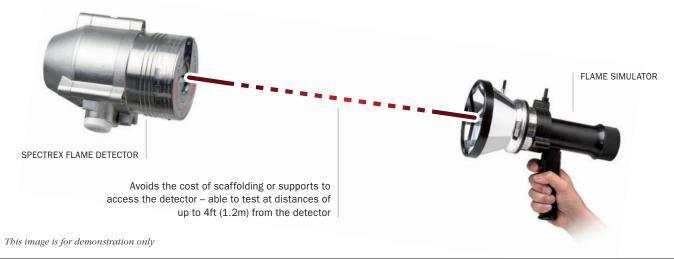
The robust and reliable FS-1300 FLAME SIMULATOR allows remote testing of flame detectors, which are often located in difficult to access and/or classified hazardous areas (Zones 1 and 2).

#### **Key Benefits**

- Flame detector activation at a range up to 4ft (1.2m) a 33% increase compared to previous simulator models.
- Reduced maintenance costs with easy access for testing detectors, in hard to reach places, from floor/deck level without the need for scaffolding or ladders
- Highly portable for hand held operation by a single operator
- ATEX/IECEx approved for use in Zones 1 and 2 hazardous areas
- Single charge is sufficient to test up to 100 detectors

#### FS-1300 Flame Simulator at Work

The Spectrex flame simulator emits IR radiation in a unique pattern corresponding to, and recognizable as fire by your SharpEye Flame Detector. This allows the detector to be tested under "real" fire conditions without the associated risks of an open flame.



#### ABOUT **SharpEye**\*\*

The SharpEye range of Optical Flame Detectors includes a wide variety of technologies such as IR3, Multi-IR, UV/IR, all providing reliability, performance and durability. These flame detectors are equipped with a range of output options, ensuring maximum compatibility, and a wide range of approvals to ensure suitability for a variety of industries, from high risk to commercial.



### **Technical Specifications**

The Flame Simulator Kit, Part No. 380114-3 includes the FS-1300 Flame Simulator, battery, charger, tool kit and user guide TM380202 in carrying case.

	SIMULATOR MODELS			
40/40R 50ft (15m) 2.5ft (0.75m) 4ft (1.2m)  GENERAL SPECIFICATIONS  Operating Temperature +32°F to +122°F (0°C to +50°C)  Vibration protection 1g (10-50Hz)  Activations between charges 100 max.  ELECTRICAL SPECIFICATIONS  Power 14.8V (4 × 3.7V rechargeable lithium-ion battery)  Maximum current 4A  Battery capacity 2.2AH  Charging time 2hr at 2A  MECHANICAL SPECIFICATIONS  Dimensions 9 × 7.3 × 5.35" (230 × 185 × 136 mm)  Weight 5.5 lb (2.5 kg)  Enclosure Aluminum, heavy-duty copper-free, black painting  Explosion-proof enclosure Ex II 2 G  Ex db ib op is IIB + H2 T5 Gb  −20°C to +50°C (−4°F to +122°F)  TR CU (EAC) 1Ex db ib op is IIB+H2 T5 Gb X  −20°C ≤ Ta ≤ +50°C		Sensitivity Setting	Min. Testing Distance	Max. Testing Distance
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Weight 5.5 lb (2.5 kg)  Enclosure Aluminum, heavy-duty copper-free, black painting  Explosion-proof enclosure $Ex   12 G$ $Ex   13 G$ $Ex   14 G$ $Ex   15 G$ $Ex$	MECHANICAL SPECIFICA	TIONS		
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-20°C ≤ Ta ≤ +50°C	Explosion-proof enclosure	Ex II 2 G Ex db ib op is IIB + H2 T5 C	5b	
Water and dust tight IP65	TR CU (EAC)	•	5b X	
	Water and dust tight	IP65		

Specifications subject to change For more information view manual or website www.spectrex.net



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