

FS-1400

Flame Simulator for all Spectrex Single IR Flame Detectors



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

The FS-1400 FLAME SIMULATOR is the essential complimentary tool to the self-testing capabilities of your SharpEye™ Multi 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-1400 verifies the correct operation of the Multi IR flame detector, performs an essential end-to-end loop test and verifies window cleanliness.

FS-1400 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.

KEY FEATURES

- Long-range flame detector activation – at a range up to 40ft (12m) – 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
- Easy aiming using laser diode
- ATEX/IECE x approved for use in Zone 1 and Zone 2 hazardous areas
- Single charge is sufficient to test up to 1,000 detectors

SPECTREX FLAME DETECTOR



SPECTREX FLAME SIMULATOR



Avoids the cost of scaffolding or supports to access the detector – able to test at distances of up to 40ft (12m) from the detector

FS-1400

SPECIFICATIONS Specifications subject to change without notice**SIMULATOR MODELS**

DETECTOR TYPES	DETECTOR SENSITIVITY SETTING	MIN. TESTING DISTANCE	MAX. TESTING DISTANCE
40/40M	50ft (15m)	2.5ft (0.75m)	6.6ft (2m)
	100ft (30m)	2.5ft (0.75m)	19.6ft (6m)
	150ft (45m)	2.5ft (0.75m)	29.5ft (9m)
	200ft (60m)	2.5ft (0.75m)	40ft (12m)

GENERAL SPECIFICATIONS

Temperature range	-4°F to +122°F (-20°C to +50°C)
Vibration protection	1g (10-50Hz)
Activations between charges	1,000 max.

ELECTRICAL SPECIFICATIONS

Power	14.8V (4 x 3.7V rechargeable lithium-ion battery)
Maximum current	4A
Battery capacity	2.2AH
Charging time	2hr at 2A

MECHANICAL SPECIFICATIONS

Dimensions	9 x 7.3 x 5.35" (230 x 185 x 136 mm)
Weight	5.5 lb (2.5 kg)
Enclosure	Aluminum, heavy-duty copper-free, black zinc coating
Explosion-proof enclosure	ATEX and IECEx approved Ex II 2 G D Ex d ib op is IIB + H2 T5 Gb Ex ib tb IIIC T135°C Db -20°C to +50°C
Water and dust tight	IP65
PART NUMBER	85-2414



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