

FS-1100

Flame Simulator for all Spectrex IR3 / Multi-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-1100 FLAME SIMULATOR is the essential complimentary tool to the self-testing capabilities of your Sharpeye™ IR3 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-1100 verifies the correct operation of the IR3 detector, performs an essential end-to-end loop test and verifies window cleanliness.

FS-1100 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.

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 40 ft (12m) from the detector



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 21 hazardous areas
- Single charge is sufficient to test up to 1,000 detectors

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

Detector Types	Detector Sensitivity Setting	Testing Distance
40/40I, 40/40M,	50ft (15m)	6.6ft (2m)
40/40UFI, 20/20CTIx,	100ft (30m)	19.6ft (6m)
older models 20/20I,	150ft (45m)	29.5ft (9m)
SI and XI	200ft (60m)	40ft (12m)
20/20MPI, 20/20MI-1	33ft (10m)*	6.6ft (2m)*
	65ft (20m)	8.2ft (2.5m)
	100ft (30m)	19.6ft (6m)
	132ft (40m)	26.2ft (8m)

* 20/20MPI only

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	85-2411



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