

FlameSpec™ FSIM

Flame Simulator Family

Flame simulators are often used by industry to perform detector testing during commissioning and periodic system testing. FlameSpec™ simulators differ from many competing products because they test the active sensors and detection algorithms of the devices without using "bypass" techniques to trick the detector into responding.

The FSIM range is lightweight, simple to use and has a modern ergonomic design. Suitable for use in hazardous areas, the FSIM-IR3 has an extended trigger distance of up to 27 feet (9 meters) from the detector.

Three FSIM models are available, depending on the FlameSpec™ Detector to be tested, IR3, IR3-H2 and UV-IR.

Key Benefits

- Tests the active sensors and detection algorithms, without using "bypass" techniques.
 - No tricks, detector performance assured.
- Works from distance up to 27 feet (9 meters).
 - Reduces the need for scaffolding.
- Hazardous area use approved.
 - Hot work permits not required.
- Lightweight and simple to use.
 - More than 1,000 activations between charges (IR3 and IR3-H2 versions).
- Easy aiming using laser diode (FSIM-IR3 & FSIM-IR3-H2).
- Includes carrying strap, protective storage case, battery charger and operating instructions.
- Easy to transport & supplied with everything needed.
- Complementary to FlameSpec™ Detector inbuilt test features.
 - Enables full end to end (loop) system test.



The FlameSpec™
Flame Simulator range
provides fast and
convenient detector
verification in the field.

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	Simulator Kits Part Nos	FLS-FSIM-IR3-KIT		FLS-FSIM-IR3-H2-KIT		FLS-FSIM-UV-IR-KIT	
	Detector type	FLS-IR3 FLS-IR3-HD		FLS-IR3-H2 FLS-IR3-H2-HD		FLS-UV-IR-(F) FLS-UV-IR-(F)-HD	
OPERATION DISTANCES	Detector Sensitivity	ft.	m	ft.	m	ft.	m
	Extreme	30	9.0	30	9.0	42.5	13.0
	High	20	6.0	20	6.0	26	8.0
	Medium	10	3.0	10	3.0	20	6.0
	Low	3.3 ¹	1.0 ¹	3.3 ¹	1.0 ¹	6.6	2.0
ELECTRICAL SPECIFICATIONS	Operating Voltage nominal, V	3.7		3.7		3.7	
	Number of activations between charging	~1000		~1000		~50	
	Battery Capacity, mAh	>3000		>3000		>3000	
	Charging time, hours	up to 3		up to 3		up to 3	
	Indication	3 Color LED (Green, Yellow, Red)					
	All Simulator Models						
MECHANICAL SPECIFICATIONS	Size	3.9 x 3.9 x 7.8" (100 x 100 x 200mm)					
	Weight	3.96 lbs. (1.8 kg)					
	Simulator Enclosure Material	Painted Aluminum LM25					
ENVIRONMENTAL SPECIFICATIONS	Ingress Protection	IP65 (NEMA 4X)					
	Humidity	up to 99% (RH), non-condensing					
	Operating Temperature	Min: -4°F (-20°C) Max: +122°F (+50°C)					
APPROVALS	Explosion Proof	ATEX Ex II 2 G Ex db ib op is IIC T6 Gb Ex II 2 D Ex tb ib op is IIIC T85°C Db -20°C<Ta<+50°C					
ACCESSORIES included in kits	Carry Case	FLS-FSIM-CASE					
	Carrying Strap	FLS-FSIM-STRAP					
	Cover Tool	FLS-FSIM-TOOL					
	Allen Key	FLS-FSIM-ALLEN					
	Battery Charger	FLS-FSIM-CHRG					
WARRANTY	3 years						

¹with collimator removed