

FlameSpec FLS-FSIM

Flame Simulator Family



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

Introduction

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 needed required.
- Lightweight and simple to use.
 - More than 1,000 activations between charges.
- 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.

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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 ¹ FLS-IR3-HD ¹		FLS-IR3-H2 FLS-IR3-H2-HD		FLS-UV-IR FLS-UV-IR-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 ²	1.0 ²	3.3 ²	1.0 ²	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	Carrying Case	FLS-FSIM-CASE							
	Carrying Strap	FLS-FSIM-STRAP							
	Cover Tool	FLS-FSIM-TOOL							
	Allen Key	FLS-FSIM-ALLEN							
	Battery Charger	FLS-FSIM-CHRGR							
WARRANTY	3 Years								

¹not CO2L variant
²with collimator removed