

FLAMESPEC FLAME SIMULATORS



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

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.
- Includes carrying strap, protective storage case, battery charger and operating instructions.
- Easy to transport and supplied with everything you need.
- Complementary to FlameSpec Detector inbuilt test features. Enables full end-to-end (loop) system test.

Introduction

Flame simulators are often used by industry to perform detector testing during commissioning and periodic system testing. The FlameSpec simulators differ from competing products, because they test the active sensors and detection algorithms of the devices without using “bypass” techniques to trigger response.

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.

Ordering Information

Part Number	Description
FLS-FSIM-IR3-KIT	IR3 flame simulator (FIK-IR3 and FIK-IR3-HD)
FLS-FSIM-IR3-H2-KIT	IR3-H2 flame simulator (FIK-IR3-H2 and FIK-IR3-H2-HD)
FLS-FSIM-UV-IR-KIT	UV-IR flame simulator (FIK-UV-IR and FIK-UV-IR-HD)

Specifications

OPERATION DISTANCES	Simulator Kit Part Nos	FLS-FSIM-IR3-KIT	FLS-FSIM-IR3-H2-KIT	FLS-FSIM-UV-IR-KIT
Detector Type		IR3 ¹	IR3-H2	UV-IR
		IR3-HD ¹	IR3-H2-HD	UV-IR-HD
Detector Sensitivity		ft. m	ft. m	ft. m
	Extreme	30.0 9.0	30.0 9.0	42.5 13.0
High		20.0 6.0	20.0 6.0	26.0 8.0
Medium		10.0 3.0	10.0 3.0	20.0 6.0
Low		3.3 ² 1.0 ²	3.3 ² 1.0 ²	6.6 2.0
ELECTRICAL SPECIFICATIONS	Operating Voltage nominal	3.7V	3.7V	3.7V
	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		
	Spare Battery	FLS-FSIM-BATT		
WARRANTY	3 Years			

¹CO₂L variant not tested²with collimator removed

PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® (HFC-227ea.)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Compressed Air Foam
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Marine & Offshore
Vapour Mitigation
Li-Ion Fire Systems

Support Services



Design / Engineering
Technical Support
Services & Testing

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