

FlameSpec Flame Simulators



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

Key Benefits

- Complementary to Fike’s Flame Detector inbuilt test features. – Enables full end-to-end system test.
- Inexpensive, lightweight and simple to use. – Reduced initial cost and ongoing maintenance costs.
- Activation of test from up to 23 feet (7 meters). – Reduces the need for scaffolding.
- Hazardous area use approved. - No time-consuming hot work permit required.
- More than 1,000 activations between charges. – Ready to use when you are.
- Includes carrying strap, protective storage case, battery charger and operating instructions. – Easy to transport and supplied with everything you need.

Introduction

Flame simulators are often used by industry to perform detector testing during commissioning and periodic system testing. The FlameSpec simulators are inexpensive, lightweight and simple to use. The modern ergonomic design, with alignment markers, allows accurate, fast and convenient detector performance verification. Suitable for use in hazardous areas, the FlameSpec simulators can be used at distances of up to 23.0 feet (7.0 meters) from the detector.

Three different models are available for testing each type of flame detector (IR3, IR3-H2 and UV-IR).

All Fike flame detectors perform automatic self-tests of their optics, windows, electronics and software. Additionally, the Fike flame detectors can be manually put into alarm via the detector’s communicator software or by short circuiting the “Manual BIT” terminal and the “24 VDC (-) terminal for one second. The FlameSpec flame test simulators are designed to complement these inbuilt features by providing a fully external loop test capability.

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; FIK-UV-IR-F; FIK-UV-IR-F-HD and FIK-UV-IR-HD)

This document is only intended to be a guideline and is not applicable to all situations. Information is subject to Fike’s full disclaimer at <http://www.fike.com/disclaimer>.

Specifications

OPERATION DISTANCES	Kit Part Nos	FLS-FSIM-IR3-KIT		FLS-FSIM-IR3-H2-KIT		FLS-FSIM-UV-IR-KIT	
	Detector Sensitivity	ft.	m	ft.	m	ft.	m
	Extreme	23.0	7.0	23.0	7.0	21.3	6.5
	High	16.0	5.0	16.0	5.0	16.0	5.0
	Medium	10.0	3.0	10.0	3.0	13.0	4.0
	Low	3.3	1.0	3.3	1.0	3.3	1.0
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					
	Spare Battery	FLS-FSIM-BATT					
WARRANTY	3 Years						

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