FlameSpec
FLS-FSIM
Flame Simulators

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 FlameSpec Detector (IR3, IR3-H2 and UV-IR)

All FlameSpec flame detectors perform automatic self-tests of their optics, windows, electronics and software. Additionally, the FlameSpec flame detectors can be manually put into alarm via the FGD 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.

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

Key Benefits

- Complementary to FlameSpec 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.

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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-H2		FLS-UV-IR	
		FLS-IR3-HD		FLS-IR3-H2-HD		FLS-UV-IR-F	
						FLS-UV-IR-F-HD	
						FLS-UV-IR-HD	
OPERATION DISTANCES	**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**	