

# Flame Sensor Test

## Flame Sensor Test Unit

Flame test unit has been designed to generate a wide range of optical output signals, for the testing of flame detectors.

The test unit simulates the flickering flame signal by modulating the output of a filament lamp. The thermal time constant of a filament lamp prevents the generation of a perfect flame flicker signal. The slow response of the filament lamp will mean that some flame sensors many require more time to activate under test than they would with a real flame.

The unit is intended for service engineers to use, when performing commissioning and routine maintenance.

### Features

- Wide Spectral Output - UV, Visible, Near IR, Mid-IR
- Tests many Flame Sensors Types UV, UV/IR, UV/IR<sup>2</sup>, IR<sup>3</sup>, IR<sup>2</sup>, IR
- Portable with Rechargeable NiCd Battery Pack and Charger
- Selectable Optical Output Type
  - Constant Illumination
  - Regular Flashing Sources (Range of Frequencies)
  - Irregular Flickering Sources (Resembling Flames)
- Selectable Optical Output Intensity with LED Bar Graph Indication
- Range typically 3 metres and beyond
- 30 Second Timeout on Each Test
- Auxiliary 24Vdc Supply for Testing



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## Mechanical Specification

Housing Material	Test unit: ABS and Noryl Charger: 94V-O polycarbonate
Housing Colour	Black
Dimensions	260(H) x 90/128(W) x 60(D) mm
Weight	1kg

## Electrical Specification

Charger Input Voltage	85Vac to 265Vac @ 47Hz to 440Hz
Test Unit Battery Voltage	24Vdc (Ni-Cd)
Test Unit Auxiliary	
24Vdc Output Current	0.1Amp. max.

## Light Source Performance

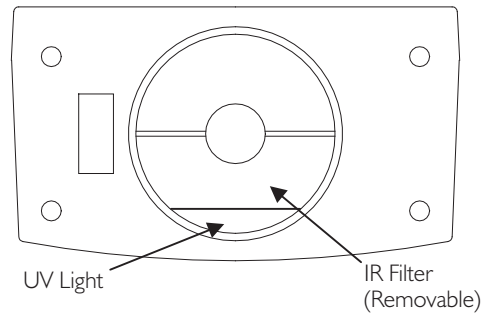
Light Source Power	20W max
Beam Angle	8° Cone
Spectral	UV
Response	Visible
	Near IR
	Mid-IR
Test Range	5m typical

## Environmental

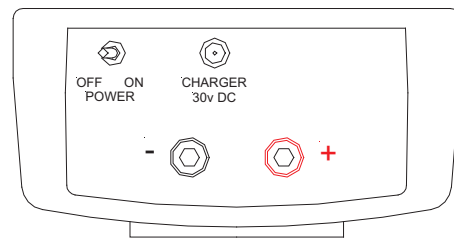
Operating Temperature	-15°C to +50°C
Charger Temperature	0°C to +50°C
Relative Humidity	95% Non condensing
IP Rating	IP54
RFI/EMC: Test Unit	EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4
Charger	EN 50130-4, EN 55022 FCC 20780 Level B, EN 55022 Level B
Charger Safety Standards	Approved according to UL 1950, CSA A22.2 no 234, IEC950, EN 60950, TÜV file No S9954870, S9954887 and S9954856

## Transport Case

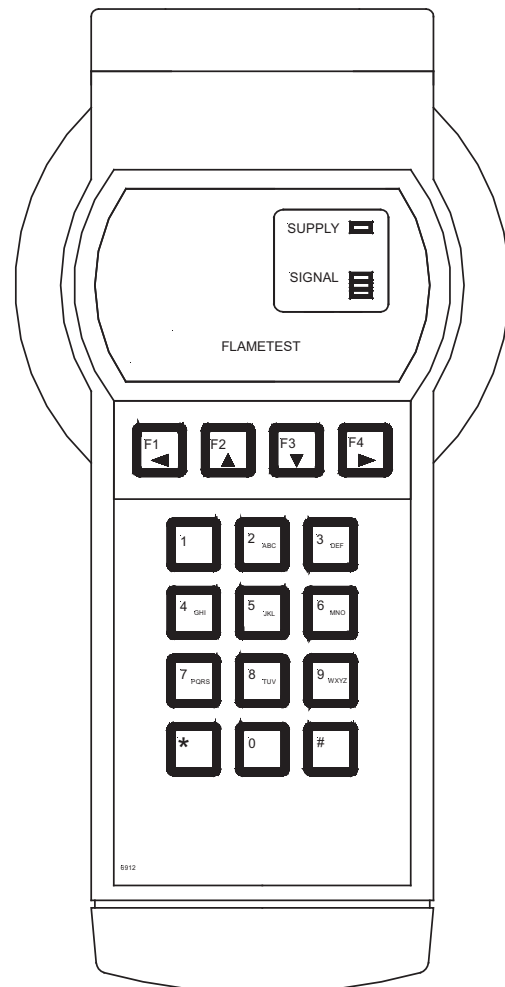
Colour	Bright Blue
Dimensions	375(L) x 295(W) x 75(D) mm



Test Unit Top View of Light Source



Test Unit with Base Cover Removed



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