



**GENERAL MONITORS**  
Protection for life.

# MODEL TL105

## Test Lamp For Flame Detection



### Features

- Rechargeable / replaceable battery
- Easy grip handle integral with housing
- Battery charger status indicator
- Explosion proof cast aluminum housing
- Microcontroller

### Benefits

- Extended product life
- Easy to use
- Ease of maintenance
- For use in Class I, Divisions 1 & 2 locations
- Monitors all operations

### Description

The TL105 is a battery operated, rechargeable test lamp specifically designed to test General Monitors' UV, UV/IR and IR flame detectors. The test lamp provides a high-energy, broadband radiation source that emits sufficient energy in both the ultraviolet and infrared spectra to activate UV and/or IR flame detectors. To simulate a fire, the test lamp automatically flashes at various selectable rates.

The TL105 is designed for use in Class I, Divisions 1 & 2, Groups C and D areas. The test lamp functions on internal nickel-metal hydride batteries which, when fully charged, allows continuous operation for at least 45 minutes. An internal circuit prevents operation when the battery charge is low.

A variety of flashing test patterns, selectable through a rotary switch, allows the test lamp to check the operation of General Monitors flame detectors, including the FL3000/3100 series, the FL4000, Types V and VI detectors. When the specific flashing pattern for a given type of flame detector is appropriately selected, the test lamp triggers the alarm or test mode.

### Specifications

<b>Output Spectrum:</b>	Broadband emissions in UV, visible and IR spectra
<b>Charging Time:</b>	3.5 hours max.
<b>Charger Input:</b>	110-240VAC, 50/60 Hz, 1.5A
<b>Charger Output:</b>	24 VDC @ 2.1A
<b>Classification:</b>	Class I, Zone I, T4 (110°C) Ex d IIB + H <sub>2</sub>
<b>Operating Temperature Range:</b>	5°F to +122°F (-15°C to +50°C)
<b>Humidity:</b>	0-90% ±3% RH, non-condensing
<b>Length:</b>	13 inches (330 mm)
<b>Diameter:</b>	5 inches (127 mm)
<b>Weight:</b>	7.9 lbs (3.5 kg)
<b>Warranty:</b>	Two years
<b>Approvals:</b>	CSA, ATEX, CE Marking
<b>Standard Configuration:</b>	<b>TL105-0-2</b> Includes power supply adapter