



**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 and UV/IR series, the FL4000 and 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> <i>Includes power supply adapter</i>



## MODEL TL100 UV TEST LAMP

The General Monitors TL100 UV Test Lamp is a portable, rechargeable source of ultraviolet radiation, specifically designed for use in testing General Monitors UV flame detectors. It emits a wide band of radiation, which includes the 185 to 260 nanometer region.

To avoid damaging exposure to ultraviolet radiation, the TL100 provides a "Power On" indicator so that direct viewing of the lamp is not necessary. The TL100 is approved by CSA as intrinsically safe for use in Class I, Division 1, Groups C & D.

### Features

- Intrinsically safe
- Rugged and lightweight
- Two UV intensity levels
- Power ON indicator (eliminates need to view UV lamp directly)
- Low battery indicator
- Typically two-hour operating time between charges
- Regulated lamp intensity
- 3-position momentary switch (HI / OFF / LO)



### Specifications

<b>Operating Temperature:</b>	32°F to 158°F (0°C to 70°C)
<b>Weight:</b>	1 lb (0.45 kg)
<b>Dimensions:</b>	11"L x 2.25" D (279 mm L x 57 mm D)
<b>Operating Time:</b>	2 hours (approximately)
<b>Charging Time:</b>	14 to 16 hours
<b>Charger Input:</b>	120V + 15% 50/60 Hz, 3W nominal
<b>Output:</b>	9 VDC @ 47 mA
<b>Approvals:</b>	CSA, CE Marking
<b>Standard Configuration:</b>	TL100-2 Includes battery charger

*Specifications subject to change without notice.*

*Represented by:*

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