

# General Monitors® TL105 Test Lamp For Flame Detection



The General Monitors 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 Test Lamp 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 30 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 FL5000, FL500/FL500-H2, FL4000 series, and FL3000/3100 series 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.

## Features & Benefits

- Rechargeable/replaceable battery extends product life
- Easy-grip handle is integral with housing
- Battery charger status indicator means easy maintenance
- Explosion-proof cast aluminum housing allows for use in Class I, Divisions 1 & 2 locations
- Microcontroller monitors all operations

## Specifications

<b>OUTPUT SPECTRUM</b>	Broadband emissions in UV, visible, and IR spectra
<b>CHARGING TIME</b>	3.5 hours
<b>ELECTRICAL SPECIFICATION</b>	12 VDC 130 W 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, Division 1 & 2, Groups C & D Ex tb IIIC T110°C Db Ex db IIB + H2 T4 Gb
<b>OPERATING TEMPERATURE RANGE</b>	5°F to +122°F (-15°C to +50°C)

<b>CHARGING TEMPERATURE</b>	32°F to +104°F (0°C to +40°C)
<b>HUMIDITY</b>	10-90% ±3% RH, non-condensing
<b>LENGTH</b>	13 in. (330 mm)
<b>DIAMETER</b>	5 in. (127 mm)
<b>WEIGHT</b>	7.9 lb. (3.5 kg)
<b>WARRANTY</b>	Two years
<b>APPROVALS</b>	CSA, ATEX, IECEx, CE Marking, UKEX
<b>STANDARD CONFIGURATION</b>	TL105-1001 (Includes power supply adapter)

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.