

Portable Flame Detector Test Lamps



- **Specially designed “flashlight” to verify flame detector operation and field of view.**
- **Uses Standard Carbon Zinc Batteries or Rechargeable Batteries**
- **Rugged and lightweight Anodized Aluminum Housing**
- **Momentary On-Off switch to conserve power**
- **O-Ring seals provide moisture resistance**
- **Emits radiation similar to that produced by a real fire**
- **Activates UV detectors as far as 65 feet or 20 meters away**
- **Activates IR or UV/IR detectors as far as 5 feet or 1.5 meters away**

Safety Systems Technology FT series Test Lamps are specifically designed portable sources of ultraviolet or ultraviolet/infrared radiation for testing Safety Systems Technology UV and triple mode UV/IR flame detectors. The UV model emits a wide band of UV radiation which includes the region of 1850 to 2450 Angstrom, corresponding to the response of our ultraviolet flame detectors. The UV/IR model emits, in addition to the UV radiation, IR radiation which pulsates at a slow rate to simulate the “flicker” in a real fire. The test lamp functions on internal batteries which, when fully charged, will allow operation for an extended period of time. The batteries may be either the standard disposable “flashlight battery” or rechargeable batteries.

OPERATING INSTRUCTIONS

! WARNING: These test lamps are not intended for use in hazardous locations.

Do not operate the test lamp or the battery charger in any location where combustible gases, vapor or dust is present.

Before operating the test lamp, check that the unit has a set of standard Carbon Zinc or rechargeable “D” cell batteries installed with sufficient capacity to operate the test lamp. Verify operation by carefully observing the visible light from the UV/IR test lamp. For the UV only version, carefully check the UV lamp for a slight glow in a dark location. *Do not look directly at the test lamps for any longer than necessary, since UV radiation will damage your eyes.*

The FT193 test lamp is capable of activating the Safety Systems Technology UV optical flame detector at distances of up to 65

feet (20 meters) from the detector. The FT194 test lamp activates Safety Systems Technology Triple Mode UV/IR optical flame detector at distances of up to 5 feet (1.5 meters) from the detector.

To operate the test lamp, depress the test lamp switch and aim it directly at the detector under test. The red LED located inside the detector enclosure will illuminate after the detector has received the emitted UV or UV/IR signal.

The response of the detector will depend on the distance between the detector and the test lamp. In almost all instances this test lamp is used to verify the detectors optical self-check circuit and to aim the detector towards the source to be protected.

SAFETY PRECAUTIONS

While operating this device, shortwave ultraviolet radiation is emitted. Do not look directly into the test lamp lens. Prolonged exposure may damage your eyesight.

These test lamps are for use in ordinary industrial locations. Do not change batteries or depress the on/off switch in any location where potentially explosive atmospheres exist.

USAGE & CARE CONSIDERATIONS

These test lamps contain a highly specialized lens which allows transmission of the ultraviolet and infrared radiation. This lens is extremely expensive, and must never be replaced with a standard glass or plastic lens. Always handle the test lamp with extreme caution to prevent damage to the special lens. Store the lamp in the provided carrying case when not in



use. Clean the lens only with clear water. *Do not use commercial window cleaners on the test lamp or on the flame detectors, as the residue from these cleaners will prevent transmission of the UV radiation.*

MODEL FT193 UV TEST LAMP TECHNICAL SPECIFICATIONS

Operating Temperature:	32°F to 158°F (0°C to 70°C)
Weight:	2 pounds (0.91 kg)
Dimensions:	12.4 inches long x 2.25 inches diameter (315 x 57 mm)
Operating time:	40 hours with new set of batteries
UV Output:	Full range 1850 to 2450 Angstrom
Operating Range:	65 feet (20 meters)

MODEL FT194 UV/IR TEST LAMP TECHNICAL SPECIFICATIONS

Operating Temperature:	32°F to 158°F (0°C to 70°C)
Weight:	2.5 pounds (1.134 kg)
Dimensions:	14.62 inches long x 2.25 inches diameter (371 x 57 mm)
Operating time:	40 hours with new set of batteries
UV Output:	Full range 1850 to 2450 Angstrom
IR Output:	4.3 microns switched at 2 Hz rate
Operating Range:	5 feet (1.5 meters)



ORDERING INFORMATION

PART NO.	DESCRIPTION
193-1	Model FT193 Portable UV Test Lamp with rechargeable batteries and battery charger for 240 volt operation
193-2	Model FT193 Portable UV Test Lamp with replaceable batteries
193-3	Model FT193 Portable UV Test Lamp with rechargeable batteries and battery charger for 120 volt operation
194-1	Model FT194 Portable UV/IR Test Lamp with rechargeable batteries and battery charger for 120 volt operation
194-2	Model FT194 Portable UV/IR Test Lamp with replaceable batteries
194-3	Model FT194 Portable UV/IR Test Lamp with rechargeable batteries and battery charger for 240 volt operation



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