Test Lamp LAV-FT-02 for UV, IR and UV/IR Flame detectors

- Installation instructions
- User Guide
- Specifications

Optional carrying case

Description:

The Lavastica LAV-FT-02 Flame detector test lamp activates UV, IR and UV/IR flame detectors which detect in the 185-235 nm UV and the 4.4 µ IR frequency ranges. For UV only detectors the maximum distance is up to 8 meters (26 ft) in the continuous mode and up to 4 m (13 ft) in the pulse mode. The test range for IR and UV/IR detectors is up to 4 meters (13 ft).
Most IR Flame detectors have an extra alarm criterion; analyzing the flicker frequency of a fire. In order to simulate the flame flicker the lamp needs to be pulse operated. For this, the test lamp LAV-FT-02 can be put into the pulse mode by means of a selection switch on the left side of the test lamp. The lamp then emits pulsed light with a frequency of approx. 2 Hz. After the alarm delay time of the detector, the IR or UV/IR flame detector will activate.

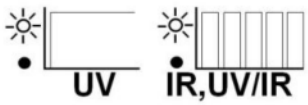
Specifications:

Adapter (charger)	100-240 Vac, with selectable plugs for US, EU, GB and AU
Test range UV flame detectors	up to 8 m (26 ft) in continue mode, up to 4 m (13 ft) in pulse mode
Test range IR and UV/IR flame detectors	up to 4 m (13 ft)
Battery	sealed Lead Acid battery, 12 Vdc / 2.8 Ah
Lamp	H3, 12 Vdc / 100 W
Use	10-15 minutes under optimal conditions and continuous use
Housing	ABS (plastic) black
Shipping dimensions (box)	310 x 220 x 210 mm (12 5/8 x 9 x 8 5/8 “)
Shipping weight	2.1 kg (4.62 lbs)
Ingress protection rating	IP30 / NEMA 1
Temperature range	+4 to +40 ^{0}C (+39 to +104 ^{0}F)
Country of Origin/Intrastatistic Number	EU, 8531 10 30
Optional carrying case	
Material	Case: polypropylene, inlay polyurethane
Shipping dimensions (box)	440 x 340 x 280 mm (17 3/8 x 13 3/8 x 11 “)
Shipping weight incl. test lamp	5.0 kg (11.1 lbs)

Operation:

Before a test is carried out make sure the flame detector is switched on and the alarm outputs are in override. Please avoid unwanted alarm signals as a result of your test. The Test Lamp will turn on/off by pressing/releasing the trigger.

1. Point at the flame detector within the test distance and on the central axis of the cone of vision of the detector.
2. Press the trigger and wait until the Flame detector is activated.
3. Verify that the switch on the left of the test lamp is in the continuous mode (see figure). For the For IR or UV/IR detectors the switch on the left of the test lamp should be in the pulse mode (see figure on the RHS of this page). In this mode the test lamp emits light with a pulse frequency of approx. 2 Hz.
4. Operate the trigger for at least the delay time of the detector. Most Flame detectors will respond within 30 seconds when the test criteria have been met.
5. Do not use the test lamp in intermittent operation or in continuous mode for longer than 1 minute.
6. Wait at least 30 seconds after each test before performing the next test.



continuous mode pulse mode

First use:

1. Remove the cover of the battery compartment (on the top of the test lamp).
2. Remove the battery.
3. Place the battery back into the battery compartment in such a way that the terminals of the 12 Vdc battery are making contact with the terminals of the lamp.
4. Place the cover of the battery compartment in the original position.
5. Charge the battery for at least 4 hours (6 hours max.).

Remark: The battery is already charged when leaving the factory. However, the unit should be charged immediately after purchase.

Charging:

1. Plug in the charger and apply the charger cable to the Test Lamp. The charge time for a completely discharged battery is +/- 4 hours. Do not charge for more than 6 hours.
2. The Test Lamp must be fully charged when stored immediately after use, before the test lamp is stored.
3. Every 3 months the unit should be recharged when stored without using.
4. During charging the red LED on the left of the test lamp is on. However, when the test lamp is completely discharged, during the first hours the red LED may be off.

Please read the following instructions carefully:

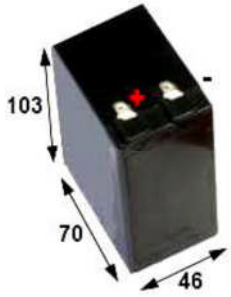
1. The life time of the battery is negatively influenced if you use the test lamp continuously longer than 10 minutes and in one go.
2. The LAV-FT-02 test lamp has a protective grate which should not be removed.
3. Do not stick objects through the grate.
4. Store the test lamp clean and dry. A dirty reflector will reduce the test range.
5. Do not use the test lamp in wet conditions.
6. Keep away from children.
7. Do not point directly at eyes from a short distance. Do not look directly into the light.
8. The test lamp should not be used when damaged.
9. Do not open the lamp, send it back for repair. Contact Lavastica for details.
10. Do not throw the unit in a fire. The battery could explode when exposed to intense heat.
11. Warning, after use the grate may be hot.
12. The sealed lead battery has a lifetime of several years. Please ask your local city official how to dispose the unit.
13. Not suitable for IR/IR- (dual IR), IR/IR/IR (IR3 or triple IR) flame detectors.
14. Make sure testing of the flame detectors does not activate unwanted alarm signals.
15. Only for use in safe areas.

Battery replacement

1. The battery can be ordered locally by means of the battery information in the specification.
2. Remove the cover of the battery compartment.
3. Slide the new battery in the battery compartment. Make sure that the poles are heading in the direction of the terminals of the test lamp.
4. Place the cover of the battery compartment in the original position.
5. Charge the new battery charged immediately for +/- 4 hours (6 hours max.).

Battery specifications:

Battery type	sealed rechargeable lead acid battery
Battery voltage and capacity	12 Vdc/ 2.8 Ah
Terminal type:	0.187 Spade Protected Terminals
Terminal position	see drawing “battery terminal position”
Dimensions: l x w x h	70 x 46 x 103 mm
Type	SLA1039



Battery terminal position