

Test Lamp FDT-229/4P for UV, IR and UV/IR Flame detectors



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Description:

The Technomarine FDT-229/4P Flame detector Test Lamp activates UV, IR and UV/IR Flame detectors that detect at 185-235 nm UV and 4.4 μ IR radiation. For UV only detectors the maximum distance is up to 8 meters (26 ft) in the continue 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 through 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 FDT-229/4P can be put into the pulse mode by means of a 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, the IR or UV/IR flame detector will activate.

Specifications:

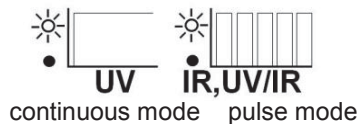
Adapter, standard	230 Vac, EU plug
Adapter, optional	100-240 Vac, with selectable plugs for US, EU, GB and AU
Test range UV flame detectors	up to 8 m (26 ft) in continue mode, up to 4 m (13 ft) in pulse mode
Test range IR and UV/IR flame detectors	up to 4 m (13 ft)
Battery	sealed Lead Acid battery, 12 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)
Protection	IP30 / NEMA 1
Temperature range	+4 to +40 °C (+39 to +104 °F)

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 by pressing the trigger and turn off when releasing the trigger.

Point at the Flame detector within the test range and on the central axis of the cone of vision of the detector. Press the trigger and wait until the Flame detector is activated. Convince yourself 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. In this mode the test lamp emits light with a pulse frequency from 2 Hz. Operate the trigger for at least the selected delay time. Most Flame detectors will respond within 30 seconds when the test criterions are met. Do not use the Test Lamp in intermittent operation or in continuous mode for longer than 1 minute. Wait at least 30 seconds after each test before performing the next test.



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First use:

Remove the battery cover (on the top of the test lamp). Remove the battery. 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. Place the battery cover in the original position.

The battery is already charged when leaving the factory. However, the unit should be charged immediately after purchase for at least 4 hours (6 hours max.).



Charging:

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.

The Test Lamp must be fully charged when stored immediately after use, before the test lamp is stored. Every 3 months the unit should be recharged when stored without using. 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:

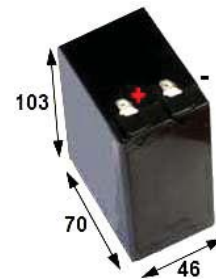
- ❖ The life time of the battery is negatively influenced if you use the test lamp continuously longer than 10 minutes and in one go.
- ❖ The FDT-229/4P test lamp has a protective grate which should not be removed.
- ❖ Do not stick objects through the grate.
- ❖ Store the test lamp clean and dry. A dirty reflector will reduce the test range.
- ❖ Do not use the test lamp in wet conditions.
- ❖ Keep away from children.
- ❖ Do not point directly at eyes from a short distance. Do not look directly into the light.
- ❖ The test lamp should not be used when damaged.
- ❖ Do not open the lamp, send it back for repair. Contact Technomarine for details.
- ❖ Do not throw the unit in a fire. The battery could explode when exposed to intense heat.
- ❖ Warning, after use the grate may be hot.
- ❖ The sealed lead battery has a lifetime of several years. Please ask your local city official how to dispose the unit.
- ❖ Not suitable for IR/IR- (dual IR), IR/IR/IR (IR3 or triple IR) flame detectors.
- ❖ Make sure testing of the flame detectors does not activate unwanted alarm signals.
- ❖ Only for use in safe areas.

Battery replacement

- ❖ The battery can be ordered locally by means of the battery information in the specification.
- ❖ Remove the cover from the battery compartment.
- ❖ 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.
- ❖ Place the battery cover in the original position.
- ❖ Charge the new battery charged immediately for at least 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

Due to the policy of continued product development Technomarine reserves the right to alter or amend information in their publications without prior notice and no responsibility can be accepted for errors or omissions.



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