

# Universal Test Lamp T-229/4P for UV, IR and UV/IR Flame Detectors

SENSE-WARE  
THE FLAME DETECTOR  
COMPANY



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www.testlamp.com



Carrying Case:  
-Americas: Always included  
-Rest of the World: Optional

## 1. Description

The Sense-WARE T-229/4P Flame Detector Test Lamp activates UV, IR and UV/IR Flame Detectors which detect in the 185-235 nm UV and 4.4  $\mu$  IR frequency ranges. For UV only detectors the maximum distance is up to 8 meters (26 ft) in the continuous 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. The Test Lamp T-229/4P 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 energy with a frequency of approx. 2 Hz. After the alarm delay time the IR or UV/IR Flame Detector will activate. **Not suitable for:** IR/IR- (dual IR), IR/IR/IR (IR3 or triple IR) Flame Detectors, whether or not in combination with a UV sensor. **For use in safe areas only.**

## 2. Specifications

<b>Test Lamp:</b>	
Test range UV Flame Detectors	up to 8 m (26 ft) in continuous mode, up to 4 m (13 ft) in pulse mode
Test range IR and UV/IR Flame Detectors	up to 4 m (13 ft)
Use	10-15 minutes under optimal conditions and continuous use
Housing; material, dimensions / weight	ABS/PC, 160 x 140 x 260 mm (6.5 x 5.5 x 10 "); 0.65 kg (1.4 lbs)
Ingress protection rating	IP30
Temperature range	+4 to +40 °C (+39 to +104 °F)
<b>Optional carrying case:</b>	Polypropylene, inlay: Polyurethane
Dimensions / weight	400 x 190 x 310 mm (16 x 8 x 12"); 2 kg (4.5 lbs)
<b>Battery:</b>	Sealed Lead Acid, 12 V / 2.7 Ah
dimensions / weight	103 x 70 x 46 mm (12.5 x 9 x 8.5 "); 1 kg (2.2 lbs)
<b>Charger, (Adapter):</b>	100-240 Vac, 1600 mA switching with pins for US, EU, GB and AU
dimensions / weight	148 x 100 x 45 mm (6 x 2.5 x 2 "); 0.25 kg (0.5 lbs)
<b>Light bulb:</b>	Broad Band, 12 Vdc / 100 W
dimensions / weight	50 x 20 (D) mm (2 x 1(D) "); 0.03 kg (0.07 lbs)
<b>CE declaration:</b>	See website
<b>Country of Origin / Statistic Numbers</b>	The Netherlands, EU (IS): 8531 10 30, USA (HS): 853110 0045

## 3. Safety instructions

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. The Test Lamp will automatically stop working after 30 seconds.
2. The Test Lamp has a protective grate which should not be removed. Warning, after use the grate may be hot. Do not stick objects through the grate.
3. Store the Test Lamp clean and dry. A dirty reflector will reduce the test range.
4. Do not use the Test Lamp in wet conditions.
5. Keep away from children. Do not point directly at eyes from a short distance. Do not look directly into the light.
6. Do not use Test Lamp when damaged. Do not open the lamp, send it back for repair. Contact Sense-WARE for details.
7. Do not throw the unit in a fire. The battery could explode when exposed to intense heat.
8. The sealed lead battery has a lifetime of several years. Please ask your local city official how to dispose the unit.
9. Make sure testing of the Flame Detectors does not activate unwanted alarm signals.
10. Use in safe areas only.
11. Dispose the items in accordance with the WEEE directive.

## 4. Warranty

If not explicitly mentioned in this instructions, the warranty clauses of the Orgalime S2012 delivery terms and conditions apply. For the test lamp a warranty of 12 months after supply is applicable (for stockholding distributors 18 months) for defects in the material, considering normal use and maintenance. SENSE-WARE will, under these circumstances and during the warranty period, repair and replace parts, free of charge of products which are returned according of our instructions. All replaced parts become property of SENSE-WARE. The warranty is only valid for companies which directly purchased the goods from SENSE-WARE and cannot be transferred to other parties.

From the warranty are excluded:

1. Defects which are caused by improper use, an incident or lack of maintenance.
2. Defects or damages which are caused by improper maintenance or manipulating the hardware, applying the wrong operating voltage, water damage etc., or wrongly executed repairs and repairs with non-genuine spare parts.
3. Products from which the serial number is removed or unreadable.
4. Normal wear and tear, including cosmetic damage.
5. Batteries

## 5. First use

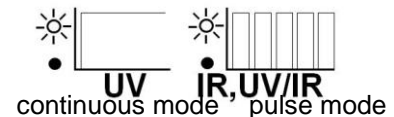
1. Remove the cover of the battery compartment (on the top of the Test Lamp).
2. Take and place the battery back into the battery compartment in such a way that the terminals of the 12 V battery are making contact with the terminals of the lamp. Press the battery sufficiently to enable easy mounting of the cover,
3. Mount the cover of the battery compartment in the original position. Charge the battery (see chapter 6) until the status LED is continuous green.
4. The battery is charged when leaving the factory. However, the battery should be charged directly after purchase.



## 6. 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. Use in safe areas only. The Test Lamp will turn on/off by pressing/releasing the trigger. When pressing the trigger the status LED is continuous green, provided the Test Lamp battery is fully charged.

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. The Test Lamp will deactivate automatically after 30 seconds.
3. Verify that the switch on the left of the Test Lamp is in the continuous mode (see figure on the RHS of this page). For IR or UV/IR detectors the switch on the left of the Test Lamp should be in the pulse mode. In this mode the Test Lamp emits energy with a pulse frequency of approx. 2 Hz.
4. Operate the Test Lamp for at least the selected delay time of the detector. Virtually all Flame Detectors will respond within 30 seconds when the test criteria have been met.
5. Wait at least 30 seconds after each test before performing the next test.



## 7. Charging

1. Plug in the charger and apply the charger cable to the Test Lamp. During charging the status LED is either steady Yellow or blinking Green.
2. Charge till status LED is steady green. If the green LED is steady in about 4 hours the battery is fully charged.
3. The Test Lamp must be fully charged when stored. Every 3 months the unit should be recharged.
4. When the charger is removed after the charging, the status LED is switched off.

## 8. Battery replacement

1. Remove the cover from the battery compartment.
2. 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.
3. Place the cover of the battery compartment in the original position.
4. Charge the new battery (see chapter 6) until the green LED is continuous green.

### Battery specifications:

Battery type	Sealed rechargeable lead acid battery
Battery voltage and capacity	12 Vdc/ 2.7 Ah
Terminal type and -position	Spade / see picture
Dimensions and weight	l x w x h 103 x 70 x 46 mm 1 kg (2.2 lbs)



## 9. Ordering Information

Part#	Description
T-229/4P	Test Lamp with Lamp, Battery and Charger, shipping dimensions / weight (box): 310 x 220 x 210 mm (12.5 x 9 x 8.5 "); 2.1 kg (4.5 lbs)
TC-229/4P	Test Lamp with Lamp, Battery and Charger plus Carrying Case, shipping dimensions / weight (box): 440 x 340 x 280 mm (17.5 x 13.5 x 11 "); 5 kg (11 lbs)
BATT4P	Spare battery, shipping dimensions / weight: 225 x 160 x 90 mm (9 x 6.5 x 3.5 "); 1.1 kg (2.4 lbs)
CH4P	Spare charger, shipping dimensions / weight: 225 x 160 x 90 mm (9 x 6.5 x 3.5 "); 0.4 kg (0.9 lbs)
BU4P	Spare light bulb, shipping dimensions / weight: 225 x 160 x 90 mm (9 x 6.5 x 3.5 "); 0.2 kg (0.5 lbs)

Please check the latest version of this instruction on [www.testlamp.com](http://www.testlamp.com).

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