



Manual

TC-169/1

Test Lamp for 210 series flame detectors Non EX



<http://sense-ware.com>

Check the website www.sense-ware.com for the latest information and latest version of this manual as well as the applicable Declaration(s) of Conformity.

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1. Safety instructions

Please read this manual carefully and study the cautions, before you start installing or using this equipment. Herewith you ensure a safe and proper use of this equipment. These safety instructions provide important information and must be consulted.

1. Only suitable for SENSE-WARE 210 series flame detectors: UV/IR-210/1, UV-185/5 and IR3-109/1
2. The life time of the battery is negatively influenced if you use the test lamp continuously longer than 10 minutes and in one go.
3. The T-169/1 test lamp has a protective grate which should not be removed.
4. Do not stick objects through the grate.
5. Store the test lamp clean and dry. A dirty reflector will reduce the test range.
6. Do not use the test lamp in wet conditions.
7. Keep away from children.
8. Do not point directly at eyes from a short distance. Do not look directly into the light.
9. The test lamp should not be used when damaged.
10. Do not open the lamp, send it back for repair. Contact SENSE-WARE for details.
11. Do not throw the unit in a fire. The battery could explode when exposed to intense heat.
12. Warning, after use the grate may be hot.
13. The sealed lead battery has a lifetime of several years. Please ask your local city official how to dispose the unit.
14. Make sure testing of the flame detectors does not activate unwanted alarm signals.
15. Only for use in safe areas.



carrying case





2. Description

The non EX SENSE-WARE TC-169/1 flame detector test lamp activates 210-series flame detectors from SENSE-WARE; the UV/IR-210/1, the UV-185/5 and the IR3-109/1. For all models the detection range is 4 meters (13 ft). The TC-169/1 test lamp is non EX, suitable for use in safe areas only.

Cautions

The TC-169/1 test lamp is only compatible with the 210-series flame detectors of SENSE-WARE. The test lamp is not suitable for flame detectors of other brands.

Specifications:

Adapter (charger)	100-240 Vac, 500 mA switching with plugs for US, EU, GB and AU
Test range for all 210 series flame detectors from SENSE-WARE Not suitable for detectors of other brands	Up to 4 m (13 ft)
Battery	sealed Lead Acid battery, 12 Vdc / 2.7 Ah
Lamp	H3, 12 Vdc / 100 W
Use	10-15 minutes under optimal conditions and continuous use
Housing	ABS (plastic) black
Ingress protection rating	IP30
Temperature range	+4 to +40 °C (+39 to +104 °F)
Country of Origin/Intrastatistic Number	EU, 8531 10 30
Material carrying case	Case: polypropylene, inlay polyurethane
Shipping dimensions (box) carrying case	440 x 340 x 280 mm (17 3/8 x 13 3/8 x 11 ")
Shipping weight incl. test lamp carrying case	5.0 kg (11.1 lbs)

3. 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. Operate the test lamp for max. 30 seconds. The 210 series flame detector should always come into alarm within this time period.
4. Do not use the test lamp for longer than 1 minute.
5. Wait at least 30 seconds after each test before performing the next test.

4. First use

1. Remove the cover of the battery compartment (on the top of the test lamp).
2. Take the battery.
3. Place the battery 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.



5. Charging:

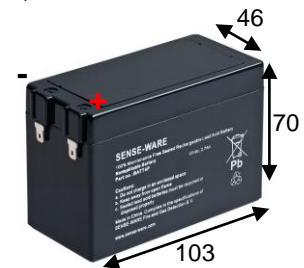
1. Plug in the charger and apply the charger cable to the Test Lamp. The charge time for a completely discharged battery is +/- 4 hours. Do not charge for more than 6 hours.
2. The Test Lamp must be fully charged when stored immediately after use.
3. Every 3 months the unit should be recharged when stored 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.

6. Battery replacement

1. The battery can be ordered locally by means of the battery information in the specification.
2. Remove the cover from 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 at least 4 hours (6 hours max.).

Battery specifications:

Battery type	sealed rechargeable lead acid battery
Battery voltage and capacity	12 Vdc/ 2.7 Ah
Terminal type	spade
Terminal position	see drawing "battery terminal position"
Dimensions	l x w x h 103 x 70 x 46 mm
Type	BATT4P



Battery terminal position

Ordering information

Catalog Code	Part #	Description
TC-169/1	SW1153	Test lamp for 210 series flame detectors non EX

7. Failure analysis

Possible root causes of faults:

1. The flame detector to be functionally tested is not a 210-series flame detector from SENSE-WARE.
2. The flame detector is not working properly and will thus not be activated by the test lamp.
3. The batteries of the test lamp are empty
4. The electronics of the test lamp is damaged.

Remarks

If you ask for the support of SENSE-WARE, make sure that you well-reported the fault in the log.



8. Warranty, returns and repairs

Warranty:

In the Warranty arrangement the conditions are mentioned which apply for the SENSE-WARE flame detector test lamp. If not explicitly mentioned in this manual, the Orgalime S2012 delivery terms and conditions apply.

SENSE-WARE provides for the T-169/1 test lamp a warranty of 12 months after supply, for defects in the material, providing normal use and maintenance. SENSE-WARE will under these circumstances, during the warranty period free of charge repair and replaces parts of products which are returned according to the instructions of this warranty section. 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 installation or manipulating the hardware and/or software.
3. Applying the wrong operating voltage, water damage etc., or wrongly executed repairs and repairs with non-genuine spare parts.
4. Products from which the serial number is removed or unreadable.
5. Normal wear and tear, including cosmetic damage.

Returns and repairs:

1. Ask via your supplier for a SENSE-WARE RMA (Returned Material Authorization). For returns to the factory an RMA is always required.
2. You will get an RMI (Returned Material Information) fill-in form on which you or your supplier fills in the SENSE-WARE invoice number, the serial number and the type of fault.
3. In case of an authorization SENSE-WARE will provide your supplier an RMA number which you have to add to the packing list of the return shipment. You also have to include the RMI form in the shipment plus faxing or emailing it to SENSE-WARE.
4. The shipping cost to and from SENSE-WARE are for the buyer.
5. Make sure that the test lamp is packed thoroughly before you return it to SENSE-WARE.
6. In case you did not buy the test lamp directly from SENSE-WARE please contact your supplier for an RMA.
7. For goods with an RMI, which require a repair within the warranty period, you can request SENSE-WARE an "advance replacement" via your supplier.

Remark:

The test lamp does not contain parts which are suitable for a local or field repair.



9. Appendix: EU declaration of conformity



In accordance with EN/ISO/IEC 17050-1:2010

Sense-WARE Fire and Gas Detection B.V.

Storkstraat 7, NL- 3905 KX Veenendaal, the Netherlands, EU

Description: Flame detector Test Lamp

Brand Name: SENSE-WARE

Model: T(C)-169/1

Article	Specification
T(C)-169/1	Flame detector Test Lamp

EMC Directive 2014/30/EU

Complies with the requirements of the European Community Directive on the Harmonization of the Legal Regulations of the Member States on Electromagnetic Compatibility.

Electromagnetic Compatibility was based on the following standards:

EN 61000-6-3: generic emission standard house hold environment

EN 61000-6-2: generic immunity standard for industrial environment

RoHS2 Directive 2011/65/EU

Conforms to: EN 50581:2012

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Signed for and on behalf of the manufacturer by:

Jan Nijkamp, Business Development Manager
Veenendaal, 21 November 2016