

Instruction

Kit Lamp OUSAF44

This instruction applies to following spare part kits:

71108535 KIT OUSAF44 Lamp 280/295/302/313/365nm

71108534 KIT OUSAF44 Lamp 254 nm

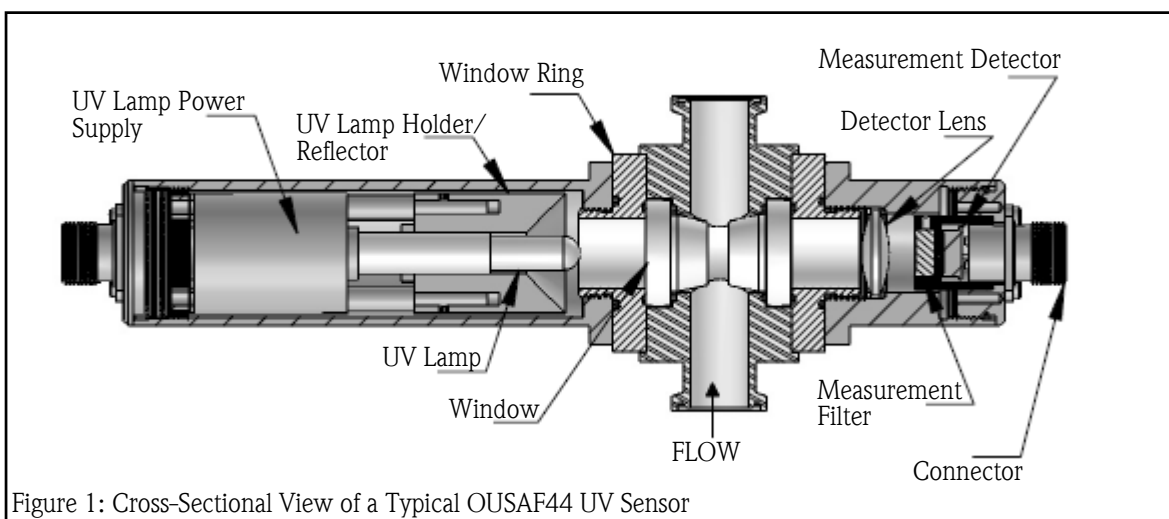


Figure 1: Cross-Sectional View of a Typical OUSAF44 UV Sensor

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Endress+Hauser 
People for Process Automation

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1. General notes

Please pay attention to the following warnings for your own safety!
Please pay attention to the operating instructions of your OUSAF44!

1.1 Qualification

The replacement of the OUSAF44 lamp may only be done by qualified and authorized personnel in compliance with these instructions.

1.2 Usage of the kit

The parts of this service kit are only to be used as spare parts for sensors of the OUSAF44 sensors family. Any other use is not permitted.

1.3 Electric safety

The OUSAF44 lamp internals operate with high voltage. In order to avoid electric shock all cables and power should be disconnected from the sensor prior to performing any maintenance or repair that requires the lamp housing to be opened.

1.4 Eyes protection

The OUSAF44 lamp produces UV Light. Whenever maintenance is performed on the sensor, remove all cables and power to the sensor. Never view the lamp directly without proper eye protection when it is powered on.

1.5 Burn risk

The lamp heats up during normal operation, so allow 30 minutes for the lamp to cool down after powering it down before touching it.

1.6 Safety rules

The sensor must be disconnected from the transmitter before starting the work.
Read the complete instructions and be sure to completely understand them before starting the work.

1.7 Feedback on the process

Consider the feedback to your process before switching off an active instrument!
Observe your process if it is controlled with the help of the involved measuring instrument via switching contacts, via analog signal outputs, or via a HART or Profibus PA communication interface.

1.8 Removal of sensors out of the process

For your own safety, pay attention to process pressure, process temperature, as well as to aggressiveness or toxicity of the media. If in the course of maintenance or service measures, a sensor has to be removed from the process (e.g. for calibration, exchange, cleaning, testing).

2. Scope of supply

This kits contains the following parts:

- 1 Pc. Lamp as specified in the kit description
- 1 Pc. O-ring 2-025 Black Buna for the lamp assembly housing.

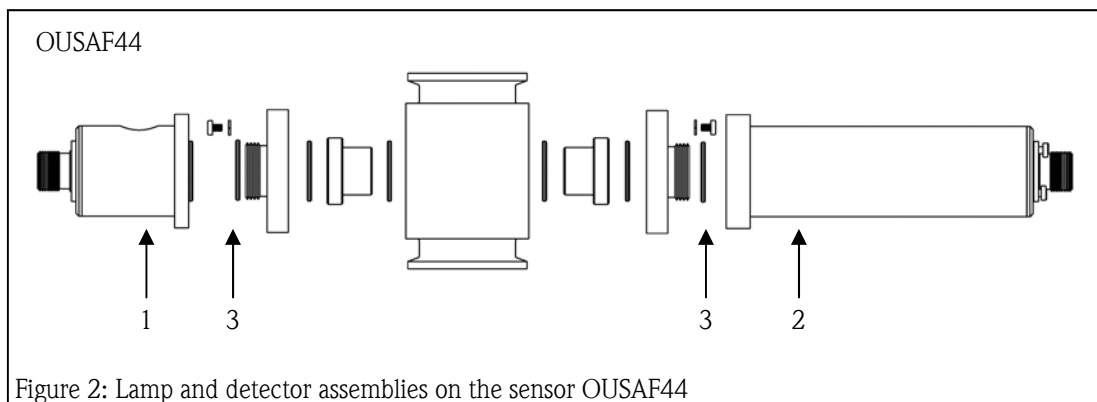
3. Instructions

3.1 Required tools and material

1. 2mm Allen key
2. Isopropyl Alcohol
3. Talc-free polymer gloves
4. Lint-free tissue
5. 2 Adjustable pipe or strap wrenches with minimum opening from 0" to 3"
6. 1 Adjustable wrench with minimum opening from 0" to 3"
7. KIT OUA260 Lamp and Detector O-rings, Part number 71142537

3.2 Lamp replacement

1. Remove the lamp and detector assemblies from the flowcell (1 and 2 in Figure 2) by turning them counterclockwise. If needed use the strap or pipe wrenches, making sure to protect the surface of the sensor in order to prevent deep scratches on it.
2. Remove the top cover of the assembly. You may have to use the pipe or strap wrench, as well as the adjustable wrench to remove it by holding the top cover by the connector (1 in Figure 3) with the adjustable wrench and using one of the strap or pipe wrenches to turn the lamp's assembly body. If you have to use the wrenches to open the lamp assembly please make sure to protect the surface of the sensor in order to prevent deep scratches on it.
3. Using the 2mm Allen key, loosen the set-screw that holds the lamp in place (2 in Figure 3).
4. Pull out the UV lamp (3 in Figure 3).
5. Clean the new lamp and the mirror with isopropyl alcohol and lint-free tissue. After cleaning, do not touch these optical surfaces. When handling the lamp, use lint-free tissue or wear talc-free polymer gloves.
6. While wearing gloves, very carefully push in the new UV lamp. Do not touch the lamp with your bare fingers!
7. Hand-tighten the set-screw that holds the lamp in place (2 in Figure 3). Do not over-tighten the screw as the lamp can break very easily!
8. Replace the lamp housing O-ring (2-025 Black Buna, 4 in Figure 3), and then close the lamp housing again.
9. Replace the lamp and detector O-rings (3 in Figure 2) with new O-rings.
10. Reinstall the lamp and detector sides of the sensor, making sure the lamp assembly is mounted on the side of the flowcell with the shorter window.
11. Follow your transmitter procedure to restart the lamp life counter, adjust the lamp voltage, and calibrate the measuring loop.



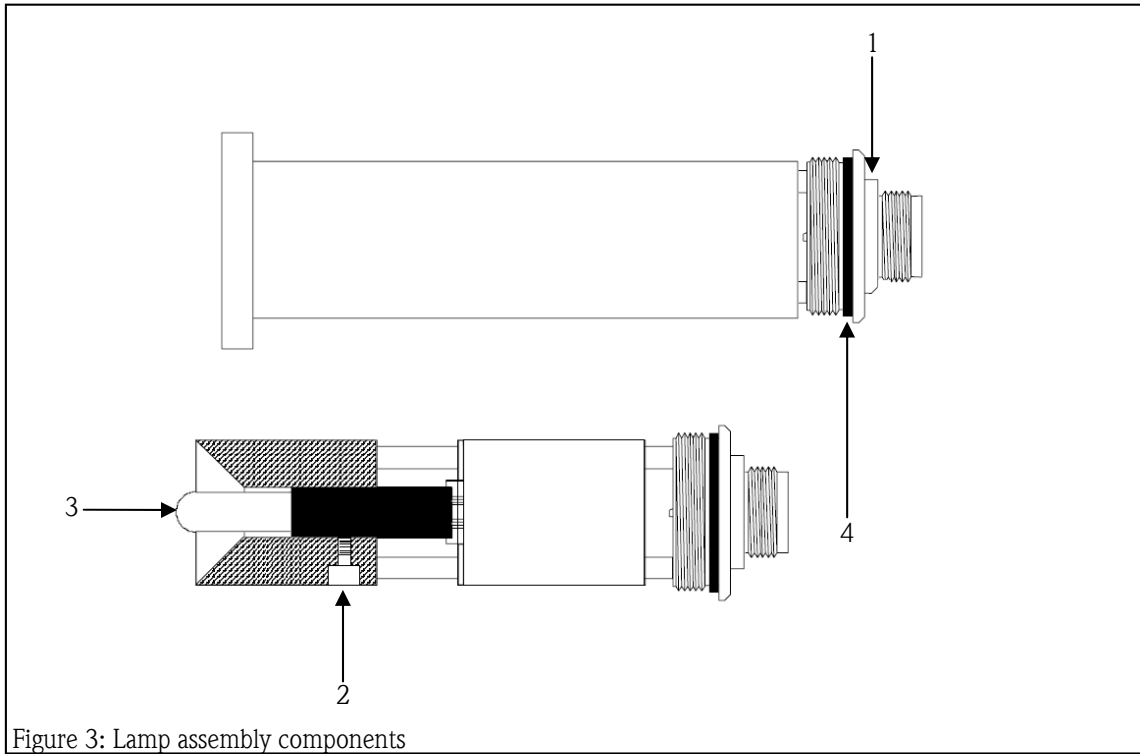


Figure 3: Lamp assembly components

