BW TECHNOLOGIES

PID Cleaning Kit

Instruction Sheet

Introduction

The PID cleaning kit is used to ensure proper maintenance of the Photoionization Detector (PID) sensor.

Confirm that the items listed below are included in your cleaning kit. If any parts are missing, contact the place of purchase immediately.

- Vial of polishing compound (1)
- Finger cots (10)
- Cotton swabs (10)
- Isopropyl alcohol pads (12)
- Lint-free dry wipes (10)
- Instruction sheet (1)

D5852/1
iERP: 119454

Contaminants can build up on the UV lamp lens and decrease sensitivity of the PID sensor. The UV lamp must be cleaned regularly to ensure accurate measurements. Refer to Table 1 for cleaning frequency.

Table 1

Detector Usage	Cleaning Frequency
Daily use (40 hrs per week)	Every 60 days
Infrequent use (10 hrs per week)	Every 90 days

Note

If sensor sensitivity decreases such as, ppm levels are lower than expected after calibration, clean the UV lamp immediately.

Cleaning the Lamp

To clean the PID lamp, complete the following steps:

1. Remove the following items from the cleaning kit:
   - two finger cots
   - one alcohol pad
   - one cotton swab
   - the vial of polishing compound
   - one lint-free dry wipe
2. Remove the PID sensor from the detector. Refer to the detector user manual for information and procedures to remove the sensor.

Figure 1

3. Remove the metal lid from the sensor. Use your thumbnail to push upward on one tab to release the lid.

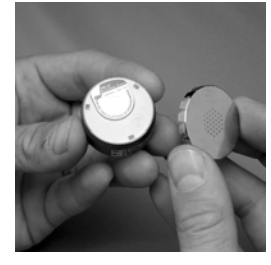

Figure 2

4. Place one finger cot on your forefinger and the other on your thumb.

Note

The thumb and finger cots must be worn to prevent contamination to the UV lamp. A fingerprint will cause contamination to the lamp and reduce the sensitivity of the sensor.

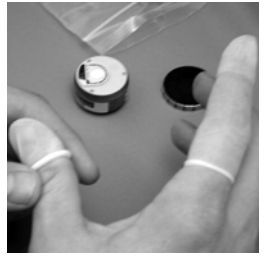

Figure 3

5. Remove the electrode stack from the sensor and set aside.

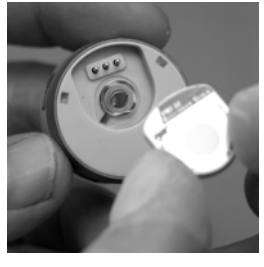

Figure 4

6. Remove the pad from the alcohol wipe package and set aside.
7. Carefully remove the UV lamp from the sensor without touching the lens. Tip the sensor slightly until the lamp is raised enough to grasp.

   Or

   Using a pencil or pen, gently push the lamp upwards from the bottom of the sensor until it is raised enough to grasp.

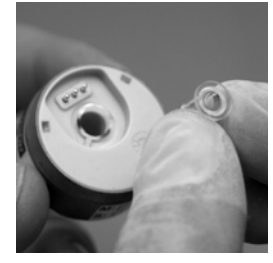

Figure 5

⚠ Caution

If the lens surface is scratched or contaminated, the sensitivity of the sensor will be greatly reduced.

8. Wipe the lens surface gently with the alcohol pad. Ensure that all the grease is removed. Do not discard the alcohol pad as it will be required again.

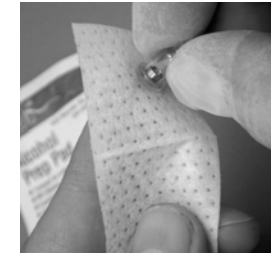

Figure 6

9. Carefully set the bulb aside. Ensure that it is laid on its side.
10. Insert only the tip of the cotton swab into the vial of polishing compound. A sufficient amount of compound will adhere to the swab.
11. Polish the lens surface in a circular motion for 30 seconds.

Figure 7

12. Using the alcohol pad, gently remove any remaining residue from the polishing compound.

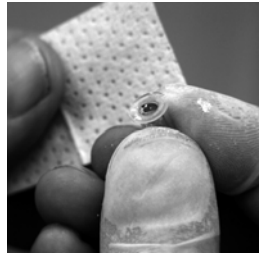

Figure 8

13. Using the lint-free dry wipe, gently wipe the lens surface.

Figure 9

Examine the lens to ensure there are no scratches, dust, or contaminates.

14. Reinsert the UV lamp and then the electrode stack into the sensor. Replace the metal lid.

15. Reinsert the sensor into the detector. Ensure that the pins on the sensor line up with the connectors on the detector.

Figure 10

16. Replace the cover of the detector and reinsert screws (if applicable). Ensure not to over tighten the screws. Refer to the detector user manual for reassembly information.

17. The detector must be calibrated after cleaning the UV lamp lens. Calibrate the detector immediately.

Contacting BW Technologies

To contact BW Technologies call:

USA: 1-888-749-8878
Canada: 1-800-663-4164
Europe: +44 (0) 1869 233004
Other countries: +1-403-248-9226

Email us at: info@bwtnet.com
Visit BW Technologies' web site at: www.gasmonitors.com

Corporate
BW Technologies LP
2840 – 2 Avenue SE
Calgary, AB
Canada T2A 7X9

USA
BW America
3279 West Pioneer Parkway
Arlington, TX
USA 76013

Europe
BW Europe
101 Heyford Park
Upper Heyford, Oxfordshire
UK OX25 5HA