Tono-Pen VET™ *Quick Reference Guide*

Applanation Tonometer

Reichert TECHNOLOGIES

Ocu-Film + Instructions

Proper set up of the Ocu-Film® + tip cover is essential for the precision and accuracy of the tonometry measurement. A new Ocu-Film + tip cover must be used for each new patient. Be certain that the film is flat across the tip, but not too taut or too loose.



Position the Ocu-Film + applicator on the transducer.



Roll the Ocu-Film + tip cover onto the tip.

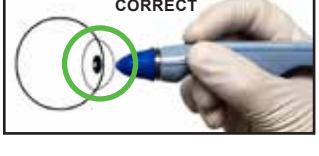


Remove the applicator.

Taking an IOP Measurement

To take a measurement, press the button once. **[8888]** will briefly be displayed, followed by a double row of dashes **[====]**, indicating the Tono-Pen is ready to measure.

The corneal surface needs only to be momentarily contacted. **Indentation or excessive pressure is not required and may lead to injury to the eye.**







Keep the Tono-Pen covered with an Ocu-Film + tip cover at all times, even in storage.

Calibration Procedure





Calibration must be successfully performed:

- Every day before the first patient measurement
- When batteries have been replaced
- After a **[bAd]** calibration
- Whenever the LCD displays **[CAL]**

Calibration can be performed with or without an Ocu-Film + tip cover.

1. Hold the Tono-Pen with the transducer end pointed straight down toward the floor.
2. Press the button TWICE within 1.5 seconds. The instrument will “beep” and the LCD will display **[CAL]**.
3. Hold the Tono-Pen steady for approximately 15 seconds until the device “beeps” and the LCD displays **[UP]**.
4. Quickly and smoothly flip the Tono-Pen up, so the transducer is pointing straight up.
5. A properly functioning Tono-Pen will display **[Good]** and the device will “beep”. Wait for the “beep” before touching the operating button again.
6. If **[bAd]** is displayed, repeat this calibration procedure.

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Troubleshooting

Tono-Pen VET Will Not Take A Reading

- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.
- Ocu-Film + may be installed incorrectly. Refer to *Ocu-Film + Instructions* on reverse.
- Use blue Reichert brand Ocu-Film + **ONLY**. Use of any other brand tip cover may affect readings and may void your warranty.
- If the above does not resolve the issue, **STOP** and send the unit in for repair.

Tono-Pen VET Asks to [CAL] Often

- Anytime the button is pressed twice within 1.5 seconds the Tono-Pen VET will enter into calibration mode.
- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.

Tono-Pen VET Turns Off

- Unit is going into power saving mode. If no measurements are taken within 15 seconds, the Tono-Pen VET will go into battery saving mode. Turn it back on by pressing the button once.
- Batteries may be low. Replace the batteries, then perform the calibration procedure.
- If **[CAL]** is seen followed by a single row of dashes **[----]**, the pen needs to be calibrated. Press the button twice to initiate calibration. **[CAL]** should appear and stay on the screen. If **[----]** appears, press the button twice, either faster or slower, until **[CAL]** stays on the screen.

Tono-Pen VET Calibrates [bAd]

- Tip may be dirty. Perform the cleaning procedure no more than 3 times consecutively. If problem persists, send the pen in for service.
- Pen is being flipped up too slowly. The pen should be turned up quickly and smoothly when **[UP]** appears.

Cleaning Procedure

1. Remove the Ocu-Film + tip cover.
2. Using canned air, place the outlet of the canned air **firmly** against the Transducer Tip as shown in the below image.

Note: Try to get a good seal between the canned air and the tip to blow any contaminants stuck in the tip safely into the internal cavity.

3. Blow air into the tip for approximately **3 seconds.** Do not perform more than 3 times consecutively.
4. The tip will be cold; allow the tip to warm to room temperature.
5. Wipe the outside of the Tono-Pen with a clean, dust-free, cotton cloth dampened with either a 70% isopropyl alcohol solution, 7.5% Hydrogen Peroxide solution, or 5.25% Bleach solution, and distilled water, or a Clorox[1] Bleach Germicidal Wipes (0.55% sodium hypochlorite) or a Sani-Cloth[2] Prime Germicidal wipes (Didecyl Dimethyl Ammonium Chloride, isopropyl alcohol and ethyl alcohol).
6. Perform the verification procedure after cleaning.
7. Install a new Ocu-Film tip cover as indicated in the User Guide.

Cleaning Tip



Cleaning Schedule

Number of Patients per Week	Number of Days Between Cleaning
10	30
100	15
300	7
600	1

Tono-Pen Service

Go to **www.reichert.com/rma**. Fill out the RMA request form. An RMA will be sent to you via email. Send in your instrument, inside the protective carrying case, with a copy of the RMA.

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[1] Clorox is a registerd trademark of the Clorox Company, Oakland, CA.
[2] Sani-Cloth is a registered trademark of PDI, Inc., Woodcliff Lake, NJ.

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