

# Tono-Pen AVIA Vet<sup>®</sup> Quick Reference Guide

Applanation Tonometer



## Ocu-Film<sup>®</sup> + Instructions

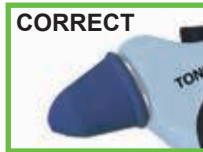
Proper set up of the Ocu-Film<sup>®</sup> + tip cover is essential for the precision and accuracy of the tonometry measurement. A new Ocu-Film + tip cover must be used for each new patient. Be certain that the film is flat across the tip, but not too taut or too loose.



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. [88888] 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 AVIA Vet covered with an Ocu-Film + tip cover at all times, even in storage.



## Verification Procedure

Verification must be successfully performed whenever the measurements are in question.

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

**Note:** The first thing to be displayed on the LCD screen during verification mode is [dn] for down.

1. Hold the Tono-Pen<sup>®</sup> with the transducer end pointed straight down toward the floor.
2. Press and hold the button for 5 seconds. The instrument will “beep” 5 times and the LCD will display [dn].
3. Hold the Tono-Pen steady for 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 [Pass] and the device will “beep”. Press the operating button again to ready the pen for a measurement.
6. If [Fail] is displayed, repeat this verification procedure.

## Troubleshooting

### Tono-Pen AVIA Vet Does Not Taking 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 other brand tip cover may affect readings or may void your warranty.
- If the above does not resolve the issue, **STOP** and send the unit in for repair.

### Tono-Pen AVIA Vet Displays [FAIL]

- Unit may be in verification mode. Perform the verification procedure.
- Verification procedure incorrectly performed. Pen is flipped up when [dn] is displayed. Perform the verification procedure.
- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.

### Tono-Pen AVIA Vet Turns Off

- Unit is going into power saving mode. If no measurements are taken within 15 seconds, the Tono-Pen will go into battery saving mode. Turn it on by pressing the button once.
- Battery may be low. Replace the battery.

### Tono-Pen AVIA Vet [FAIL]s Verification

- Tip may be dirty. Perform the cleaning procedure. 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<sup>1</sup> Bleach Germicidal Wipes (0.55% sodium hypochlorite) or a Sani-Cloth<sup>2</sup> 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](http://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.