

Rebound Tonometer

FA-800 PORTABLE



Advantages:

1. The measurement results are accurate and consistent, and proven correct through clinical studies.
2. It is painless and therefore creates no anxiety. No local anaesthetic is needed.
3. Repeated measurements could be conducted without nearly any harm to the eyes of adults and children.
4. Easy manipulation for self-measurement which doesn't require others' assistance.
5. The most advanced lateral LCD(liquid crystal display) design which better enables the operators to control the distance between the probe and the cornea and read the values on the display, a new innovative move.
6. It is small and easy to take along. You can use it anywhere without environmental restrictions to continually monitor the ocular pressures.
7. The use of disposable probes avoid the cross infection.
8. Usually patient could use it in an upright gesture, in the cases when patients could not stand up, the lying gesture is also allowed.
9. Wireless data printing(require another photocopier)
10. Built-in storage function which can store some ten sets of data for review or printing.
11. The time and date could be set for review.
12. The use of AA battery is safe and less energy-consumed.
13. Use integrated circuits in order to work more stable and longer.



The working mechanism of FA800 rebound tonometer

Rebound tonometer, also known as impact tonometer, adopts an innovative sensing rebound technology. The probe will be magnetized when being inserted into the tonometer and generates N / S poles. An transient current in the solenoids of the device (lasting about 30 milliseconds) produces an transient magnetic field that causes the magnetized probe to move toward the cornea at 0.2 m / s (homopolar repulsion principle). The probe bounces on the anterior surface of the cornea, slowing down and rebounding. If the ocular pressure is increased, the deceleration of the probe increases, and the duration of the impact decreases. The electrical control switch monitors the solenoid voltage caused by the rebound of the magnetized probes, and the electronic signal processor and the microsensor calculate the deceleration of the probe after impacting the cornea. Finally, the integrated information is converted into ocular pressure readings.

Rebound tonometer is an electric measuring type pressure gauge which converts the pressure into the voltage or current signal through the physical characteristics of the metal. Tonometer can obtain the measurement data within 0.1 seconds.



Applicability:

1. Used in tonometry tests by ophthalmologists, optometrists, general physician, professional health advisors
2. Better for patients with dementia, mobility problems and children in the measurement of corneal edema, opacity or uneven corneal surface.
3. Handy for glaucoma patients in measuring ocular pressure at home.

Usages:

1. Turn on the tonometer and install the probe.
 2. Move the machine close to the eyes and adjust the distance.
 3. Gently press the button and obtain the single measurement values and average values in several times.
- * Short Measuring Time, Only seconds.
 - * Reduce the check time for glaucoma
 - * Capable of storing the ocular data of some ten patients.





Main Parameter of FA800

Measure Error	$\pm 1.5\text{mmHg}$ ($3\text{mmHg} \leq \text{intraocular pressure} \leq 25\text{mmHg}$) $\pm 2.5\text{mmHg}$ ($25\text{mmHg} < \text{intraocular pressure} \leq 70\text{mmHg}$)
Measure Range	3mmHg ~ 80 mmHg
Transport and Storage:	
Ambient temperature	-20℃ ~ +55℃
Relative moisture	$\leq 95\%$
Atmosphere pressure	500hPa ~ 1060hPa
Machine Size / Net Weight	22cm x 5.5cm x 9cm / 0.2kg
Packing with a nice metal handcase	34cm x 24cm x 9cm
Packing Weight	1.3kg
Running	
Ambient temperature	+5℃ ~ +40℃
Relative moisture	$\leq 80\%$
Atmosphere pressure	500hPa ~ 1060hPa
Rating voltage	DC3V (2 AA Batteries)
Rating input power	1VA



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