

THE MODEL 811 SERIES

PEDIATRICS
 SURGICAL WARD
 INTENSIVE CARE
 RECOVERY ROOM

The Model 811-B and its variations have been our most popular instruments for over twenty years. They have been internally modified over that period to keep abreast of newer technology, but the "black box" package remains the same. All Model 811 series Dopplers are Class II non-invasive devices.

We now offer this basic design in a variety of housings, some of which are shown in this leaflet. Other cases with removable lids which can also store cuffs, manometer and gel are available at additional cost.

All Model 811 series Dopplers are made in operating frequencies from 8 to 9.9 MHz. If you already have PARKS instruments with detachable probes in your hospital or office, we suggest you purchase the same frequency Doppler in one of these styles so your probes will be interchangeable.

HOW SYSTOLIC PRESSURE MEASUREMENTS ARE MADE

Essentially, the Doppler substitutes for a stethoscope when a stethoscope won't work or results are of doubtful accuracy. An ordinary blood-pressure cuff is used above the elbow. The flat Doppler probe (with contact gel applied) is placed over the radial artery before the cuff is inflated and its position is optimized to give the loudest flow signal (a pulsing, hissing noise). The cuff is inflated rapidly to above systolic pressure and then gradually deflated. As cuff pressure falls to systolic pressure, a pulsing flow sound is heard during a very short portion of the cardiac cycle. At that moment the manometer reading is equivalent to systolic pressure. As pressure falls further, the dicrotic notch may be heard in the flow sound, allowing you to estimate diastolic pressure. We make no claim as to the accuracy of the diastolic measurement because doctors use different subjective criteria. However, when systolic pressure is so low your stethoscope isn't dependable, you'll probably be quite satisfied with an accurate systolic measurement. Pressures as low as 10 mm Hg can be measured on premature infants. The accuracy of the determination depends on having the proper size cuff for the limb.

Ultrasonic Doppler Flow Detector



Model 811-B shown in standard aluminum box



Four probe styles are available. The infant flat, adult flat, standard pencil (3/8" diameter) and "skinny" pencil (1/4" diameter) probes are shown above. Flat probes are normally used for arm blood pressures but can be attached over the dorsalis pedis for post surgical determination of ankle blood pressures. The "skinny" pencil probe shown is available for specialized applications.

Our probes can be dropped without damage and are much less expensive to replace than those of competitive instruments. We advise having an extra probe on hand since the most likely cause of failure is the probe and/or its cable or connectors.

These instruments don't wear out. Many hundreds have been in service ten to twenty years. Probe and battery replacement will be necessary at some time, but can be ordered separately and installed by the user.

Model 811-B, the instrument shown on the front of this leaflet, will be the instrument of choice for most applications. It is shown housed in the standard welded aluminum box with no lid. It will not break, even if dropped. The interior is also impact resistant. A flashing light indicates the need for recharging the battery, but there is enough capacity for many blood pressure measurements or exams even when that point is reached. The instrument is designed to be left on charge when not in use.

Model 811-BTS is our most reliable unit. Shown at the right in an aluminum carrying case with a removable lid and space for probes, gel and charger. It is normally supplied in the same aluminum box as the Model 811-B photo (**extra charge for case shown at right**). It was made for hospitals that check out Dopplers from Central Supply. The reason it is so reliable, besides the metal box, is that it cannot be left turned on inadvertently. When you push the on/off button the Doppler goes on for five minutes maximum. To shut it off, turn it on or extend the time, you simply push the button. The combination of a heavy-duty, long-life battery that can't be overcharged, a metal box and structure that won't break when dropped accidentally, and a timing circuit that prevents the unit from being left turned on combine to make this the instrument of choice for services where several people use the Doppler. An output for stereo headphones (not included) means you can use it in ambulances and helicopters.

Warranty

We warranty the 811 series Doppler against defects in materials and workmanship for one year. The warranty period on accessories and probes is six months. All warranty service is performed at the factory and all items must be returned to the factory prepaid. Specifically excluded from this warranty are any items which show evidence of physical abuse.

Thirty-Day Trial

We invite you to compare this Doppler with any other Doppler, regardless of price. A demonstration model is available to doctors and hospitals for a thirty-day trial. Trials are limited to the USA due to customs expense.

Ordering Information

For further information call us **Toll-Free 1-800-547-6427**. Our office hours are 7:00 AM to 3:30 PM Pacific Time.

Manufactured in the U.S.A. by:

PARKS Medical Electronics, Inc.

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Visit our Web Site at www.parksmed.com

Model 811-BL is for use in surgery when a cautery is used. It has the same features as the 811-B plus a cautery suppressor with a controllable threshold that turns the sound off when the cautery noise gets too high. If you will not be using the Doppler while using a cautery, we recommend the Model 811-B or Model 811-BTS.



Model 811-BTS shown in Model 800 case

Existing units originally sold in plastic boxes (Models 811, 812) and now in service can be put into either of the cases shown. Metal boxes are available in white, blue and black to show which hospital service the instrument belongs to.