

SR Scales™

by SR Instruments, Inc



Model 620 Pediatric Scale System

OWNERS MANUAL

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SR Scales[™]
SR Precision Scale Systems

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MODEL SR620 NEONATAL SCALE SYSTEM

The SR620 is a Precision Digital Scale System specifically designed for use in pediatric applications. Utilizing the latest in microprocessor and load cell technology, the SR620 provides accurate and repeatable weight data. Four (4) identically matched transducers are strategically placed to ensure an accurate representation of the infant's weight regardless of weight distribution.

The low power microprocessor circuitry allows the SR620 to derive its power from six (6) "D" cell alkaline batteries which will provide at least 20,000 weight readings before needing replacement. This eliminates the need for an external battery charger and keeps potentially dangerous high voltage A.C. where it belongs...

!!AWAY FROM THE BABY!!

The infant's weight is displayed on a 16 character dot matrix liquid crystal display. With the push of a button, patient weight may be viewed in either KILOGRAMS or GRAMS with a displayed resolution of 0.005 KILOGRAMS, and 5 GRAMS.

SPECIFICATIONS

Maximum Weight Capacity	20 Kg's
Display Resolution	0.005 Kg : 5 Gm
Accuracy	0.1% +/- 1 digit of reading
Display Type	16 character dot matrix L..C.D.
Display Time	Auto power-down 60 sec.
Damping	Automatic digital filter
Power Supply	6 "D" Cell Alkaline Batteries
Warranty	Four Years Parts and Labor

SR620 SYSTEM OPERATION



BASIC OPERATION

Before the infant is positioned on to the scale system you must first set the system zero. This is done as follows;



1. Press the "0" button. The displayed message will indicate "**HANDS OFF**". Make sure that nothing is in contact with the scale system while zeroing. In a few seconds the display will indicate **WEIGHT = 0.0 KG** "

The infant may now be positioned on to the weighing surface to view the weight data.

BUTTON FUNCTIONS :



The "0" button is used to initialize the system zero before placing the infant on to the scale system. When the "0" button is pressed, the display message will indicate "**HANDS OFF**". At this point you should make sure that nothing is in contact with the weighing surface so that the system zero will be accurate. In a few moments the display will read - "**WEIGHT = 0.0 KG**".



If after positioning the infant on to the scale system, the display shuts off before you are able to view the weight data, simply press the "**READ**" button to re-weigh the infant and display the weight.

NOTE: It is recommended that you ZERO the system before each weighing to assure accuracy.



The "**HOLD**" button will freeze the displayed weight and store it away in memory. To recall the **LAST WEIGHT** after the system has shut off, press the "**HOLD**" button BEFORE pressing any other. The system only recalls the **LAST WEIGHT** that was stored by HOLD.

See page 3 for some special features of the "HOLD" button.



Weight data may be viewed in any two different modes: Kilograms and Grams (5gm res.). Pressing the "**MODE**" button allows you to toggle between the display modes. The display mode will automatically default to the last mode used.

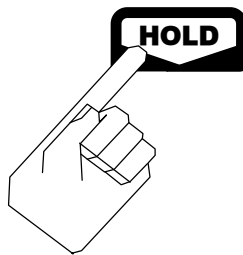
SPECIAL FEATURES

The SR620 has the capability of displaying patient weight in two different ways.

CONTINUOUS WEIGH and **AUTO-HOLD**

CONTINUOUS WEIGH - When the SR620 is shipped it comes in the Continuous Weigh Mode. This means that when the infant is being weighed, the weighing surface remains *ACTIVE* and the display may show variations depending on the movement of the infant. To *LOCK* the displayed reading you must press the "**HOLD**" button. This will also store the weight data in memory if you wish to recall it.

AUTO-HOLD - The Auto-Hold Mode will automatically *LOCK* the displayed weight data and store it memory as the last weight. The Auto-Hold Mode is activated as follows:



Press and Hold the "**HOLD**" button for approximately 5 sec. until the display indicates "**AUTO-HOLD ENABLED**" then release the button.

To return to the Continuous Weigh Mode simply repeat the same procedure. The display will indicate "**CONTINUOUS WEIGH**".

Weighing Procedure:

1. Press the "**ZERO**" button to set the zero.
2. Position the infant on to the scale.
3. When the patient's motion has stabilized, press the "**WEIGH**" * button.

* Note: In the Auto-Hold mode you *MUST* press the "**WEIGH**" button to display the weight.

If the display turns off before you view the weigh data or if you wish to re-weigh the infant simply press the "**WEIGH**" button once again.

IMPORTANT: If after the display turns off you wish to recall the last stored weight, press the "**HOLD**" button first. Otherwise the last stored weight will be reset.

SYSTEM CALIBRATION and MAINTENANCE

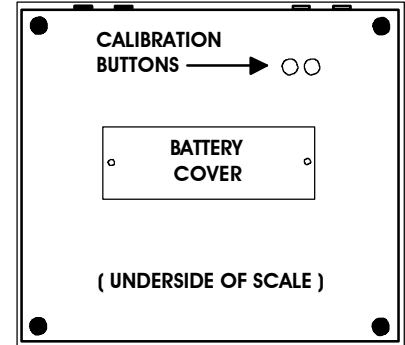


IMPORTANT : The following calibration procedure should only be performed by qualified service personnel. The SR620 load cell, itself, has no user serviceable components and should not be tampered with for any reason. Recalibration is generally not required, but may be checked periodically to ensure accuracy.

CALIBRATION PROCEDURE :

The two(2) calibration buttons are located on the underside of the scale system.

NOTE: Make sure that nothing is in contact with the scale system during this procedure. Be sure to remove your hands from the system when noting the displayed calibration results.



1. **Press and Hold** both CAL buttons simultaneously.
2. The display will read "**HOLD TO CAL**" as the right hand digit counts down to enter the **CAL MODE**.
3. When in the **CAL MODE**, press the "**ZERO**" button to zero the display.
4. Place a known calibrated weight on to the weighing surface and compare it to the displayed reading.
5. Use the **LEFT** CAL button to make "+" corrections and the **RIGHT** button to make "-" corrections to the displayed weight. The displayed value should be within 0.1% of the calibrated weight plus or minus 1 digit of reading.

When adjustments are completed:

press the "**READ**" button to **ABORT** your changes and exit the CAL mode or press the "**HOLD**" button to **SAVE** all changes and exit the CAL mode.

CALIBRATION TOLERANCE TABLE

LOW LIMIT	APPLIED LOAD	HIGH LIMIT
.99	1.0	1.01
4.99	5.0	5.01
9.99	10.0	10.01
14.98	15.0	15.02
19.98	20.0	20.02

SYSTEM CARE and CLEANING

The readout and transducer housing for the SR620 Scale System is made of aluminum with a vacuum formed cover and a cast acrylic cradle. You need only exercise caution when cleaning the display window of the electronics as this is made of clear polyester . We recommend mild soap and water for general cleaning.

The display will prompt you when battery replacement is necessary by indicating:
"REPLACE BATTERIES".