

Konica Minolta/Air-Shields® JM-103 Jaundice Meter

Application

The Konica Minolta/Air-Shields® JM-103 Jaundice Meter from Dräger Medical is an accurate, instantaneous, non-invasive device that will assist you in management of neonatal jaundice. The Jaundice Meter provides an estimate of serum bilirubin levels reported in $\mu\text{mol/L}$ or mg/dL . Used in conjunction with other clinical signs and laboratory measurements this information can assist you in making clinical decisions regarding the need for additional serum bilirubin measurements.



Air-Shields®
A Dräger Medical Brand

To use the unit, simply place the tip of the device against the forehead or sternum of the infant and press gently. The instrument's Xenon lamp will flash once and the measured value will be displayed on the screen. No additional data analysis is required by the user and the unit may be used with all skin colors.

Features

No Disposables Required

The JM-103 Jaundice Meter requires no disposable parts.

Compact and Lightweight

The units size and weight make it easy for clinicians to take from bed-to-bed.

Performance

The Jaundice Meter has been referenced in multiple studies that provide the data supporting its use. Ref: Pediatrics, Volume 113, No.6, June 2004 "Evaluation of a New Transcutaneous Bilirubinometer" p.1628-1635

Long Battery Life

At least 400 single measurements may be taken when the unit is fully charged. A "low battery" display will blink when the power is low. When not in use it is recommended that the unit remain in its charging cradle, assuring a continuous full charge.

Versatile Display

The large easy-to-read display shows results in either mg/dL or $\mu\text{mol/L}$ as selected by the user.

Checking the Unit

A simple one step process using a "reading checker" built in to the charger base checks for the intensity of light output of the device.

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The quality management system at Draeger Medical Systems, Inc. is certified according to ISO 13485 and Annex II of Directive 93/42/EEC (Medical devices).

Technical specifications

Dimensions

Width	1.9 in (4.8 cm)
Height	6 in (15.4 cm)
Depth	1.2 in (3.2 cm)

Battery Life	At least 400 single measurements when fully charged (unit may remain in charger base continually assuring constant full charge)
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Low battery charge indicator

RMSE	+/-1.5 mg/dL (+/-25.5 $\mu\text{mol/L}$)
Measurement range	0.0 to 20 mg/dL (0 to 340 $\mu\text{mol/L}$)
Weight	150g (with Ni-MH battery)
Detectors	Silicon photodiodes
Light source	Pulse xenon arc lamp

Operating conditions

Temperature range	10 to 40° C (50 to 104° F)
Relative humidity range	30 to 95%

Storage conditions

Temperature range	-10 to 50° C (14 to 122° F)
Relative humidity range	30 to 95%

Standard accessories

Charger base (with a built-in reading checker)
AC adapter
Strap

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