

BIODY XPERT^{ZM} 3

Bioimpedance measurement device
Body composition analysis



Clinical specifications

The BIODY XPERT^{ZM3} is a bioimpedance meter designed to provide information for monitoring and tracking body composition, as well as the general nutritional status of individuals.

Intended Use:

The BIODY XPERT^{ZM3} is intended to perform bioimpedance measurements for the following population:

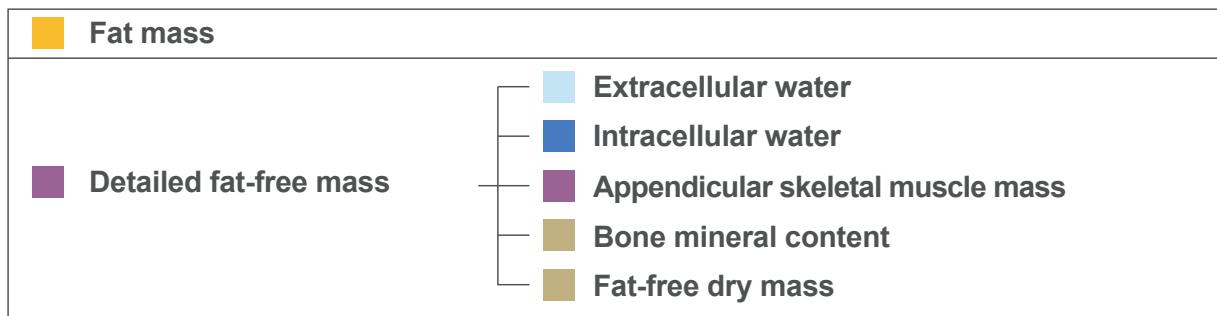
Adult patients	Pediatric patients
From 19 years old.	From 5 to 18 years old

Indications for Adults:

Supports the diagnosis and monitoring of nutritional status, particularly obesity; detection of sarcopenia; and assessment of appendicular skeletal muscle mass in populations aged 65 and older (Ref. EWGSOP 2019 and HAS 2021).

Compartments or Tissues Assessed

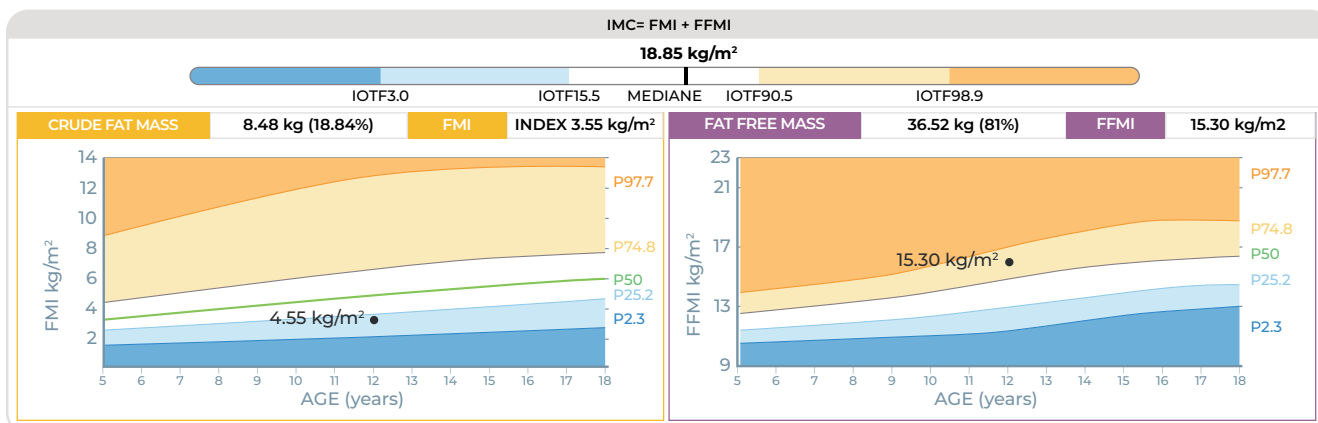
The BIODY XPERT ZM3 measurement analysis is delivered as color-coded indicators representing the different body compartments or tissues, ranging from the simplest 2-compartment model "Fat Mass / Fat-Free Mass" to the most detailed.



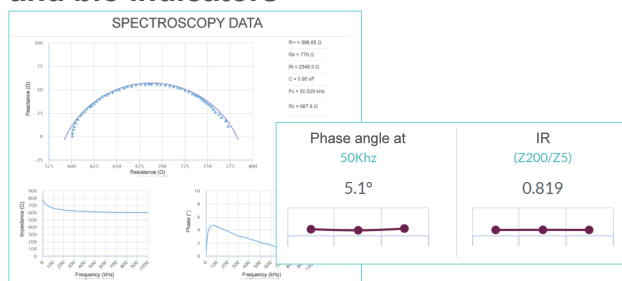
Indications for the Pediatric Population:

Measurement of Fat Mass (FM) and Fat-Free Mass (FFM). Calculation of BMI composition (Ref. WHO or IOTF) expressed as Fat Mass Index (FMI) and Fat-Free Mass Index (FFMI) in kg/m².

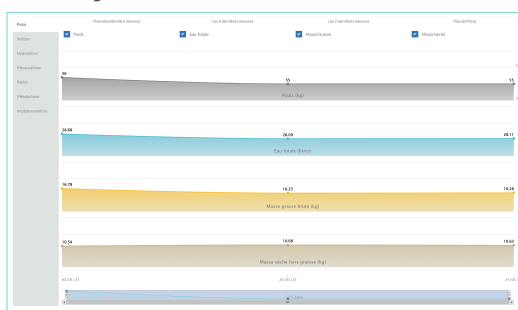
Positioning relative to population-based study values expressed as percentiles.



Spectroscopic bioimpedance data and bio indicators



History



Solution

Device



BIODY XPERT™ 3

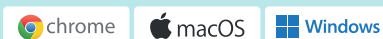
Software



Full web platform

- Measurement synchronization via Bluetooth
- Full web software optimized for the Google Chrome browser (macOS*, Windows*)
- 🔒 All circulating data is fully encrypted
- Patient data backup in France with HDS certified hosting
- Customizable dashboard (selection of indicators to display and saving of models)
- History of measurement results
- Printing of the analysis report

*See: Technical sheet



Mobile Applications

- Measurement synchronization via Bluetooth
- Available on Android and iOS*
- 🔒 All circulating data is fully encrypted
- Patient data backup in France with HDS certified hosting
- Simplified display of key indicators for quick reading
- History of measurement results
- Device function settings
 - Choice of vocal function language
 - Sound volume adjustment
 - Local date and time setting
 - Calibration control

*See: Technical sheet



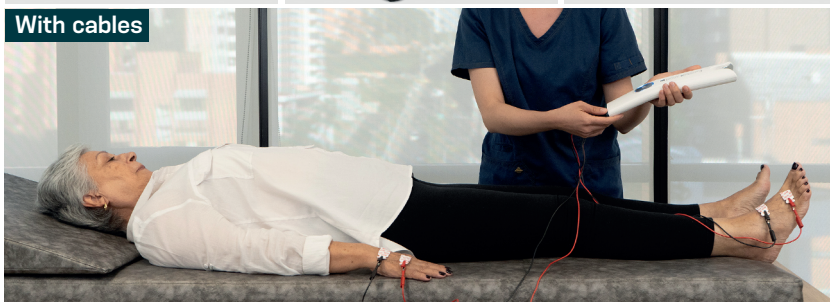
Exclusive 2-in-1 system

tailored to each patient, with or without cables















Without cables



With cables



AMINOGRAM

Measurement	Quadripolar measurement (4 BF-type applied parts)		
Frequency Range	Multifrequency and spectroscopic impedance measurement from 1 to 1000 kHz. Multifrequency technology over 54 frequencies (1 to 1000 kHz)		
Spectroscopic Analysis	Representation of the result on Cole-Cole curve and display. Additional data: resonance frequency / Rinf/Re/Ri/Membrane capacity/Resistance and Reactance at the center of the circle / Circle radius / Td.		
Measurement Range	20 to 1500 Ohms Unlimited Phase Angle measurement range (including 0° – 20°)		
Current Intensity	35 µA – 800 µA peak		
Precision	Impedance 1% Phase Angle ± 0.2° Representatives: ± 160 g on fat-free mass ± 0.26% ± 150 ml on total water ± 0.42% ± 90 ml on extracellular water ± 0.54%		
Displayed resolution	Impedances in Ohm: 1Ω Phase angle in degrees: 0.1°		
Wireless Bluetooth Connection	Bluetooth name: BX3, followed by the serial number of 8 digits (BX3-XXXX_XXXX) Characteristics: Bluetooth LE BGX220S – BGM220S Emission frequency band: 2402-2480 MHz Modulation frequency type: GFSK Equivalent radiated power: 11.11 dBm		
Power Supply	2 rechargeable NiMh LR6 batteries 1.2V 2800 mA PANASONIC REF: BK-3HGABE/4BE		
Weight	300 grams		
Dimensions	(L) 28.6 cm (W) 5.7 cm (D) 3 cm		
Transformer for recharging batteries	(One of these transformers is included with your device) <table border="0"> <tr> <td>FRIWO FOX6-XM-USB Input: 100-240V  50-60Hz 160-80mA Output : 5V  1.4A</td> <td style="border-left: 1px solid black; padding-left: 10px;"> XPOWER -ACM06US05-BB Input: 100-240V  50/60Hz 0.2A Output: 5.0V  1.0A </td> </tr> </table>	FRIWO FOX6-XM-USB Input: 100-240V  50-60Hz 160-80mA Output : 5V  1.4A	XPOWER -ACM06US05-BB Input: 100-240V  50/60Hz 0.2A Output: 5.0V  1.0A
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Automatic Launch Touch'n Start	The device starts the measurement as soon as the 4 electrodes are in proper contact with the subject's skin.		
Measurement Assistance	LED and voice guide.		
Electrode Technology	Direct measurement with integrated electrodes in the device (no consumables) + Wired function with cables and adhesive electrodes.		
Software and Application	BiodyConnect application (Android version 9.0 and above - iOS version 13.0 and above) Windows 10 and 11, macOS Monterey 12 and above for BiodyManager.com Web service software: www.biodymanager.com Up-to-date Google Chrome browser - activated Google Chrome flag		
HDS certified host	SIGMA INFORMATIQUE SAS ZI La Gesvrine - Rue Newton - 44240 LA CHAPELLE-SUR-ERDRE France		
Warranty	2 years included (extended warranty option: 3–5 years)		
Made in	France		
Manufacturer	Aminogram SAS  ISO 13485:2016		
Medical Device Class IIa	 0459		