



## The Forerunner

BIA 101 rechargeable battery-operated Phase-sensitive body impedance (Z) analyser, with microprocessor quality control of Resistance, Reactance, Skin coupling and battery check. Supplied with battery charger, subject cable, 100 electrodes, serial transmission cable, reference (dummy) calibration circuit, instruction manual and aluminium carrying case, including Bodygram software, featuring BIA Vector, BIAGram, Phase Angle, TBW, ECW, BCM, ECM, FFM, FM, BMR, Na/K, BCMI, BMI, 24UCr, BIAIndex.

The BIA 101 is the forerunner of all the commercially available bioelectrical impedance analysers. Its unsurpassed fame is probably due to the long history of measurement consistency (above 25 years) and its overall reliability.

Many devices sold in the early eighties, after more than two decades are still operating spotlessly, showing direct readouts of resistance and reactance from a 50 kHz sine constant current source, injected at 800 microampere RMS, and with the unique add-on that the shown figures are quality controlled by proprietary microprocessor based feedback.

The physiological data analysis yield reliable (three component model) body composition estimates, (FM-ECM-BCM) and fluid and hydration diagnosis.

The ideal device to detect phase sensitive impedance variations at reasonable costs. Its flexibility renders the BIA 101 suitable for any medical and non medical use, ranging from the fitness area to life saving theatres; from animal studies or simply solid circuits analysis to agricultural assessments. The thousands of publications on all these fields are but an indication on its reliability, precision and flexibility.

### TECHNICAL DATA:

Current:	constant current generator produces a continuous sinusoidal wave that is kept constant at a level of 800 microamperes RMS on overall loads ranging from 1 up to 4000 Ohms.
Frequency Measure:	Sinusoidal Signal at 50 kHz $\pm$ 5%
Weight:	2,2 kg
Dimension in cm:	16 x 11 x 25
Power supply	Sealed lead-acid battery 12V, rechargeable
Battery Autonomy:	4 hours
Resistance (Rz):	
Range ( $\Omega$ ) :	0 - 999 Ohm
Resolution:	$\pm$ 1% of full scale
Precision :	$\pm$ 1 digit
Reactance (Xc):	
Range ( $\Omega$ ) :	0 - 200 Ohm
Resolution:	$\pm$ 2% of full scale
Precision :	$\pm$ 3 digit
Classification:	CE Class II A – type BF --Medical Device
Certification	Notified Body: IMQ SPA(CE 0051) Full Conformity to the European norms: 93/42/CEE – EN 60601-1-2, EN60601-1
Standard accessories:	Tetrapolar Lead Set (Patient Cable) Battery charger 3 meter RS232 serial communication cable 100 Electrodes "BIATRODES 100'S" Software BodyGram® for Windows Reference Z Circuit (Dummy ) Aluminium carrying case
Warranty:	24 months- unconditional-