



The Quantum III BIA Analyzer and management system



Features:

- Large easy to use keypad to enter subject information to create a complete body composition record and report including automatic reading of subject's resistance and reactance.
- Portable printer (optional) that prints a body composition report in seconds on 4 inch wide paper.
- Secure radio frequency (434 MHz) link (optional) for printing graphic reports on an unattended office PC (300 ft range). Subject data is also saved in a database on the PC for historical tracking. The RF link will comply with most world wide regulatory standards.
- Internal record storage saved in non-volatile flash memory. 50 complete records can be saved with the current time and date that can be exported to a PC.
- Real time clock and calendar that is set by the user with 5 year lithium battery for time stamping all subject records and reports.
- Automatic absolute calibration (optional) using precision reference components that determine full scale resistance and reactance including absolute zero ohms.
- Rechargeable Nickel Metal Hydride batteries that can run the Quantum III for a 12 continuous hours (minimum) and be fully charged in 3 hours from a small universal power supply (90-240 VAC).
- BIA analyzer that measures simultaneous resistance and reactance from 0 to 1000 ohms with 0.1 ohm resolution.

Advantage:

- Self-contained - The Quantum III is a stand alone precision instrument that does not require a PC to report or store information.
- Accurate - Self calibrating and internal diagnostics to assure the highest level of accuracy, dependability and reliability.
- Portable - Rechargeable internal battery can run for 12 continuous hours on a 3 hour charge.



- Easy to use - The Quantum III is comfortable to hold (860 grams) with a tactile embossed keypad making data entry effortless and simple. Accidental wrong characters and the current record can easily be edited to correct any data entry errors.
- Fast - A complete body composition test and report can be generated in a matter of minutes on a unattended PC (RF link) or portable printer.
- Complete - The internal program code can be tailored to integrate with other applications for data consolidation and automatic turnkey systems.

Specifications

Constant current accuracy

Nominal: 425 microamp at 50 KHz \pm 1 %

Regulation: better than 0.1 %

Range: 0 to 10,000 ohms, resistive or capacitive

Resistance accuracy

Nominal: \pm 0.1 ohm

Range: 0 to 1000 ohms

Resolution: 0.1 ohm

Reactance accuracy

Nominal: \pm 0.5 ohm

Range: 0 to 1000 ohms

Resolution:

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