

ASPEL

Cycloergometer CRG200

v.601



Functionality

- cooperation with the CardioTEST stress test system and the ASTER cardiac rehabilitation system
- control of the cycloergometer using a PC via the RS-232/USB interface
- device equipped with an ECG module made in microprocessor technology using 24-bit analog-to-digital processing
- brake controlled by an on-board computer, using several independent rotational speed sensors
- load control by a microprocessor makes the load independent of speed, which allows you to adjust the driving pace to the patient's individual predispositions
- PAR (Power Automatic Regulation) algorithm using the BI (Bilinear interpolation) method
- load regulation from 25 to 1001 W
- measurement range of revolutions from 5 to 150 revolutions per minute
- IPS color display with keyboard
- control of correct connection of electrodes to the patient without the participation of a computer and superior software

Technical and operational parameters

- dimensions: 1140 x 535 x 1328 mm
- weight: 44 kg
- power supply: external power supply CRG200-M24 (integral part of the cycloergometer)
- supply voltage: 100 - 240 VAC; 47 - 63 Hz
- maximum current consumption: 2A (for 100 - 120 V); 1A (for 220 - 240 V)
- DC socket: 24V; 2A max
- braking method: processor-controlled magnetic brake with torque control (load independent of RPM), PAR algorithm
- communication interface: RS-232/USB
- graphic interface: IPS color graphic display, 4.3" (480 x 272)
- load range: 25 - 1001 W
- load accuracy: +/- 5 W below 50 W; +/- 10% above 50 W
- rotational speed: 5 - 150 rpm
- speed measurement error: +/- 1 rpm
- max user weight: 201 kg
- Medical device class: IIa (rule 10)
- Type of protection against electric shock (EN 60601-1): Class II
- Training device classification (EN ISO 20957-1): Class SA
- Class and group of device according to CISPR-11: Class A, Group 1



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- operating mode: continuous operation - at an average load of max 100W; continuous operation with intermittent load - at an average load of max 200W (duty cycle fill factor 66% (2:1), max. operating time 30min. - break time 15min.); continuous operation with intermittent load - at an average load of max 400W (duty cycle fill factor 40% (2:3), max. operating time 10min. - break time 15min.); continuous operation with intermittent load - at an average load of over 400W (duty cycle fill factor 20% (1:4), max. operating time 3min. break time 12min.)
- safety of use: EN 60601-1, EN ISO 20957-1, EN ISO 20957-5, EN 60601-2-25
- electromagnetic compatibility: EN 60601-1-2

ECG module

- ECG signals: 12 standard leads (diagnostic mode), 2 leads (training mode)
- frequency range: 0.05 - 150 Hz (with filters off) according to EN 60601-2-25
- sampling rate: 2000 samples/s per channel (uniform sampling)
- A/C converter resolution: 24 bits; amplitude measurement error: +/- 2%
- ECG signal range: 10 mVp-p
- digital filtration: mains interference - none, 50Hz, 60Hz; muscle interference - none, 25Hz, 35Hz, 45Hz; baseline filter: none, 0.25Hz, 0.45Hz, 0.75Hz, 1.5Hz
- HR measurement range: 25 - 300 bpm +/- 2% at 1 bpm resolution
- applied part (EN 60601-1): CF type defibrillation-proof
- input circuit protected against defibrillation pulse. After the defibrillation pulse, the ECG waveform will appear after no longer than 10 seconds

Accessories

- CRG200-M24 power supply - 1 pc.
- SN-134 black power cable - 1 pc.
- RS-232-USB data transmission cable - 1 pc.
- KEKG 51 cable - 1 pc.
- KEKG 52 cable - 1 pc.
- disposable electrodes - 50 pcs.
- EVERY abrasive paste - 1 pc.
- warranty card - 1 pc.
- user manual - 1 pc.

Certificates

- CE 0197
- EN ISO 13485
- MDD/93/42/EEC