ASPEL
MEDICAL EQUIPMENT

CardioTEST Alfa System CRG200

Product	CardioTEST Alfa System CRG200 consists of: • ergometer CRG200 • CardioTEST software
Ergometer CRG200	
Braking	processor – controlled brake with torque measurement
Load level	• 25-400 W+/- 5 W to the power level 50W and +-/ 10% above 50 W • controlled by a microprocessor • load does not depend on speed
Rotation speed	20-130 rpm +/- 4 rpm
Functional features	• in-built ECG module for registration of 12 standard leads according to Einthoven, Goldberg, Wilson and Cabrer • automatic measurement of HR, ST level • automatic ergometer control • signalization of rotation's speed change necessity • speed adjustable to individual patient needs • suitable to examine paediatric patients higher than 140 cm • adjustable saddle and handlebars • protection against defibrillation impulse • INOP detection

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In-built ECG module	• ECG signals: 12 standard leads in diagnostic mode • HR measuring range: 15-240 bpm • HR measuring error: +/-2% • HR resolution: 1 bpm • monitoring range of ST section: +/-3mm (10mm/mV) • ST measuring error: +/-0.2mm (10mm/mV) • ST resolution: 0.1mm (10mm/mV) • sensitivity: 2.5/5/10/20 mm/mV • record speed: 25/50/100 mm/s • filters: digital filters 25 Hz, 35 Hz, 50 Hz, anti-drift filter
Power supply	100 - 240 VAC; 47 - 63 Hz
Max power consumption	1,62 A (for 100 - 120 V) 0,72 A (for 220 - 240 V)
Max weight of an user	150 kg
Weight of an ergometer	185 kg
Dimensions	(LxWxH) 1150 x 540 x 1320 mm
Safety norms	• protection against electric shock (EN 60601-1) – Class II device • classification of training equipment (EN 957-1) – Class SA • CF type parts resistant to defibrilation • IP protection class – IP 0X • device class and group acc.to CISPR-11 – Class B, Group 1 • medical device class – IIa (rule 10) • operation safety – EN 60601-1 • electromagnetic compatibility – EN 60601-1-2
Connection interface	RS-232 or USB – connection to PC which controls the work of an ergometer
Certificates	• CE 0197 • EN ISO 9001 • EN ISO 13485 • MDD 93/42/EEC
Standard accessories	• patient cable KEKG 51 • disposable electrodes LLL-510 • abrasive paste EVERY

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CardioTEST software	
Functional features	• recording of 12 standard leads according to Einthoven, Goldberg, Wilson and Cabrer • automatic measurement of HR, ST level and slope • possibility of cooperation with treadmills operating TrackMaster protocol • possibility of cooperation with ergometers operating Ergoline protocol • reanalysis option for conducted examinations • printing and archiving of report

Registration and observation	• simultaneous registration and observation of ECG signal from all 12 leads on PC screen
	• registration and observation of average P-QRS-T complexes from all 12 leads, ST level and slope in on-line mode
	• observation of measuring points – BL, J and ST with a manual correction possibility
	• registration and observation of current HR
	• presentation of examination phase parameters:
	    - current loading
	    - time of an examination stage
	    - total exercise duration
	• PMHR control
	• observation of % PMHR
	• registration and observation of MET
	• registration and observation of DPR
	• review of trends of all measured parameters during examination
	• automatic analysis of arrythmias
	• option of automatic blood pressure measurement
	• alarms for monitoring parameters and arrythmias

Protocols	• pre-programmed protocols • user -designed protocols • RAMP protocol

Printing and archiving	• printout on a laser printer on A4 size paper
	• real-time printing of ECG curves
	• printing and archiving examination reports which contain:
	    - patient's data
	    - full disclosure ECG of the whole recording
	    - selected strips
	    - average P-QRS-T complexes
	    - table summary
	    - load value, HR
	    - ST level and slope
	    - MET
	• on screen review of a report before its printing option

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Sensitivity	2,5/5/10/20 mm/mV
Speed	25/50/100 mm/s
Filters	• isoline filters • mains disturbance filter – 50 Hz • muscular disturbances filter – 25 Hz, 35 Hz
Compatible with	• ergometer CRG 200 • treadmill B612 – model C • AsPEKT 500 KBEKG2
Certificates	• CE 0197 • EN ISO 9001 • EN ISO 13485 • MDD 93/42/EEC