CARDIOLINE

xr100

The **xr**100 is a new development created as a future-proof product concept, which once more sets trends and defines standards.

They are characterized by their high performance during exercise testing and for simplicity and completeness of programs using independent control of heart rate during exercise.

The version **xr**100**bp** integrates automatic blood pressure measurement module.

Technical Specifications

Ergometer

Modelmodular ergometer system xr100

Operating Mode......continuous operation

specification power cord US: SJT 2xAWG16 125 V / 10 A "hospital" or " hospital grade"

specification internal backup battery:

iEC: CR 2032 / 3 V 230 mAh

Braking Principlecomputer-controlled eddy current brake with torque measurement; speed independent to DIN VDE 0750-0238

Load Range......6 – 999 watts, speed independent (see diagrams)

5 fixed incremental exercise test protocols (e.g. WHO)

10 user-programmable protocols

manual load control

Control Terminal K:

5 fixed incremental exercise test protocols (e.g. WHO)

10 user-programmable protocols

manual load control

4 fixed test protocols (e.g. PWC)

10 user-programmable training protocols

Permitted Patient Weight......160 kg

Saddle Height Adjustmentcontinuous, for patients between 120 cm and 210 cm

manual adjustment of saddle height

Handlebar Adjustmentfor patient heights between 120 cm and 210 cm continuous

handlebar adjustment over 360°, rigid steering column

accessories)

DisplaysLCD:

68 x 34 mm, 128 x 64 pixels (Control Terminl P)

115 x 88 mm, 320 x 240 pixels (Control Terminal K)

additional LED display for speed (RPM)

InterfacesPORT 1 (DSUB-9-pole):

digital remote control by PC or ECG recorder,

remote start of ECG recorder (optional)

USB:

digital remote control by PC (driver required)

Dimensions, Weight.....length: 900 mm

width: 460 mm

(width of handlebar: approx. 575 mm)

height: 900 mm to 1350 mm

weight: approx. 64 kg

Safety Standards......DIN EN 60601-1, DIN EN 60601-1-2, DIN VDE 0750-238

Protection Class / Degree of





CARDIOLINE

protection	II / B (to DIN EN 60601-1)
MDD Classification	class IIa to 93/42 EEC
RF Emission	class B to DIN EN 55011 / 5.0
	DIN EN 60601-1-2

Environmentoperation:

temperature: +10 to +40 °C (50 to 104 °F) rel. humidity: 30 to 75%, no condensation atmospheric pressure: 700 to 1060 hPa transport and storage: temperature: -40 to +70 °C (-40 to +158 °F) rel. humidity: 10 to 90%, no condensation atmospheric pressure: 500 to 1060 hPa

Blood Pressure Module

Blood Pressure Module	
Measuring Method	auscultatory method, oscillometric; for resting BP, the results
•	from both measurements are compared for plausibility
Measuring Range	systolic pressure: 40 to 280 mmHg
g . tange	diastolic pressure: 40 to 280 mmHg
	pulse rate: 35 to 230 P/min
Management Francis	· '
Measurement Error	1
	readout resolution: +/- 1 mmHg
Inflation Pressure	300 mmHg max.; during inflation the inflation pressure
	automatically adapts to patient's BP
Inflation Rate	between approx. 6 seconds (to 140 mmHg) and approx. 18
	seconds (to 300 mmHg)
Max. Cuff Pressure	\
	pulse-dependent deflation rate approx. 3 mmHg/beat or
Cuil Deliation Method	1 1
6.11	approx. 3 mmHg/s
Calibration	· •
Artifact Rejection	automatic artifact rejection and comparison of the resting BP
	readings from both methods for plausibility
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Xr100

