



GE Medical Systems
Information Technologies

MAC 1200 ST RESTING ECG AND STRESS TESTING SYSTEM

The MAC 1200 ST is in its basic version a resting ECG system whose true one-button operation makes it especially suitable for routine use in private practice, emergency medicine or hospitals.

By purchasing an additional option the device can be upgraded to a stress testing system. The MAC 1200 ST stands out for its high functionality and user friendliness to an excellent price-performance ratio.

The standard, built-in battery provides for mobile use – anytime and anywhere. An extraordinary feature is the independent battery operation together with the electrode application system KISS with device integrated suction pump (optional).

The MAC 1200 ST has a brilliant graphic display where the 12 leads can be displayed quickly in 3-lead sequences.

The MAC 1200 ST offers individually adjustable output formats for evaluation of the ECG and for archiving:

- One A4 page for the complete 12-channel resting ECG with all relevant curves, patient data, date, time and instrument settings
- Configurable parameters of the stress test reports



With its four operation modes and available options, the MAC 1200 ST fulfills standard requirements:

- **Automatic** – Registration of a 10-second resting ECG with 12 leads simultaneously
- **Manual** – Real-time registration of 6 channels
- **Arrhythmia** – Continuous ECG monitoring for arrhythmia with event documentation and final report
- **Stress test**
 - 12-channel ST-measurements
 - variety of different stress test procedures and creation of individual parameters
 - automatic control of diverse bicycle ergometers and treadmills (Variobike 500, ERG 900/L/EL, EC 1200, Lode Excalibur, T2000, Trackmaster)
 - advanced configuration possibilities of stage and final report

The MAC 1200 ST is always up-to-date through its good communication capability and extendable software functions: RS232 interface

- for communicating directly or via modem with CardioSys/ CardioSoft PC or with the Catalyst MUSE or for the bidirectional communication with ergometers/treadmills

There are software option keys for resting ECG (Measurement, Interpretation, Memory: Storage of 40 resting ECGs) and for stress test (ERGO option)



MAC 1200 ST RESTING ECG AND STRESS TESTING SYSTEM – ONE FOR ALL

Device type

3/6/12-channel resting ECG and stress testing system, battery/mains operation, optional with integrated suction pump for electrode application system KISS; operation modes: Automatic, Manual, Arrhythmia; Optional: Stress Test

Software Options

Measurement; Measurement & Interpretation; Memory (up to 40 ECGs); Stress test option (ERGO)

Processing

Dynamic range: AC differential ± 10 mV
DC offset: ± 600 mV; Resolution 5 μ V, 1000 SpS; Frequency response: 0.04-150 Hz
Common mode rejection: > 140 dB; Input impedance: 100 M Ω ; leakage current: < 10 μ A
Pace detect: all leads, 0.1-2.5 ms; > 5 mV
Signal quality control: Disconnected lead detection

Communications

via RS 232 interface with MAC 1200 (ST), MAC 5000, CardioSys/CardioSoft, Catalyst MUSE

Display

Integrated graphics display: Resolution 320 x 240 pixels
Data: Heart rate, ECG curves, electrode control, ADS, time, leads, speed, filter settings

Writer

Thermal writer
Paper speed: 5 – 25 – 50 mm/s; Sensitivity: 5, 10, 20, 40 mV, automatic
Number of channels registered: 3, 6, 12; Accuracy: at 25 and 50 mm/s: $\pm 1\%$

Registration Resolution

Vertical: 8 points/mm; Horizontal: 25 μ m at 25 mm/s
Paper type: Thermal, fan fold, with 150 sheets (Contrast/Archivist)
Paper width: A4: 210 mm or 8.5"; Length: A4: 300 mm or 11"

Keyboard

Membrane keyboard: Push-buttons with tactile feedback; Function keys for routine operations
Alphanumeric keyboard for text input

Electrical

Power supply: AC or built-in battery
Voltage rating: 220-240 V/110-120 V; Operating voltage: 198-264 V/99-132 V;
Rated withstand current: 0.16 A/0.32 A; Battery type: Nickel-cadmium
Battery capacity: 50 automatic ECGs; Battery charging time: ca. 4 hours

Physical Specifications

370 x 95 x 320 mm (14.6" x 3.7" x 12.6") (incl. handle) (width x height x depth); Weight: 5.6 kg (12.3 pounds) with battery

Environmental Specifications

Transport: Temperature -30 and $+60^{\circ}\text{C}$ (with battery); Relative humidity 25-95%; Pressure 500-1060 hPa
Operation: Temperature $+10 \dots +40^{\circ}\text{C}$ (also with battery); Relative humidity 25-95%; Pressure 700-1060 hPa

Certification

CE marking indicating compliance with the Medical Device Directive 93/42/EEC

Due to continual product innovation, GE Medical Systems *Information Technologies* designs and specifications are subject to change without notice.



GE Medical Systems
Information Technologies

gemedicalsystems.com

European Headquarters
GE Medical Systems
Information Technologies GmbH
P.O. Box 60 02 65
79032 Freiburg • Germany
Tel. +49 761 45 43 - 0
Fax +49 761 45 43 - 233

World Headquarters
GE Medical Systems
Information Technologies, Inc.
8200 West Tower Avenue
Milwaukee, WI 53223 • USA
Tel. +1 414 355 5000
Fax +1 414 355 3790

Asia Pacific
GE Medical Systems Hong Kong Ltd.
11th Floor, The Lee Gardens, 33 Hysan Ave.
Causeway Bay • Hong Kong
Tel. +852 2100 6300
Fax +852 2100 6292