

GE Healthcare

MAC 400

Resting ECG System

***Making ECG available to every physician,
every patient, everywhere!***

Since 1965, GE has introduced technology innovation, which has profoundly impacted clinical guidelines and ECG standards. Through its collaboration with world-leading cardiologists, GE continues to develop ECG products to the highest standards of quality. With over 40 years' heritage in highly reliable ECG analysis and interpretation, you can trust the Marquette® 12SL™ program to support your clinical decisions.

The MAC® 400 is GE Healthcare's new compact electrocardiograph, specially designed to meet physicians' needs. It is reliable, accurate and benefits from GE's leadership in ECG technology including its well-known Marquette 12SL, which can be found in the premium ECG MAC products.

The lightweight and portable MAC 400 can be easily operated and allows you to configure it to your patient's needs for faster, more confident cardiac assessment and better patient care.

Portable. Easy-to-use. Trusted GE-ECG Quality.



Compact Line




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MEDICAL SYSTEMS

Diessenhofen Tel. 0848 800 900
Lausanne Tel. 021 653 64 08
Bern Tel. 031 981 38 34

Portable. Easy-to-use.

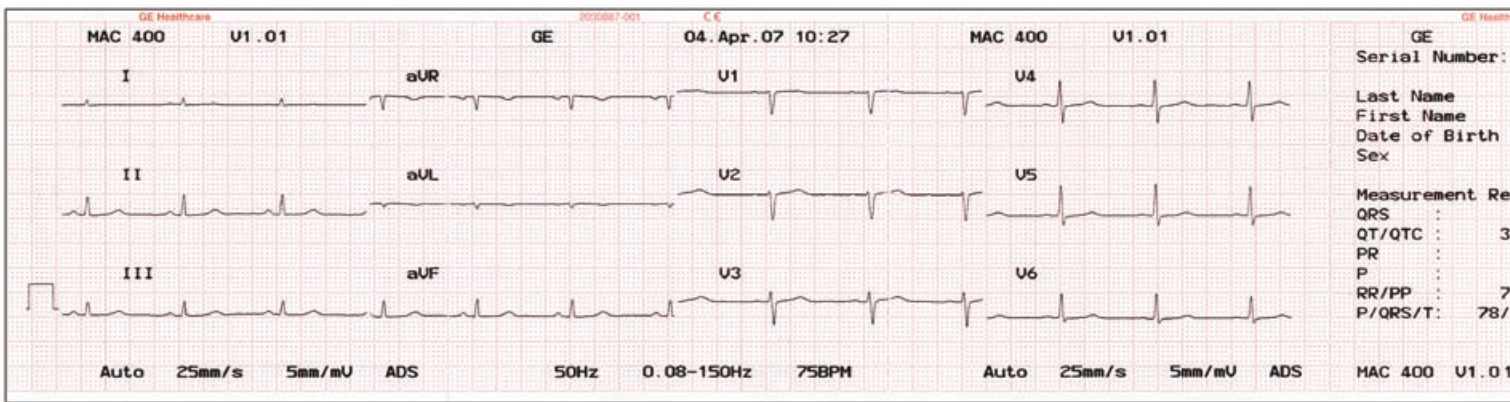
- **One Touch Operation**
for acquisition, analysis and printing, minimizes training needs.
- **Alphanumeric Display**
for easy visualization of ECG setup information.
- **Ultra Portable**
ECG device (with battery) of 1300 Gms, for easy transport.
- **Long-lasting Battery**
using Li-Ion platform, lasts for 100 ECGs in auto mode and recharges in less than 3 hours.
- **Reliable Printer Design**
to last for many years of trouble-free operation.
- **Wide Paper Size**
of 80 mm for clear visualization of ECG waveforms and reports.
- **Multiple ECG Modes**
(Auto, Manual & Arrhythmia) to allow you to adapt to your specific patient needs.
- **Reliable Decision Support Software Package Options**
such as **Marquette 12SL Measurement & Marquette 12SL Interpretation** are available to meet specific customer needs.

MAC 400 Supplies & Accessories

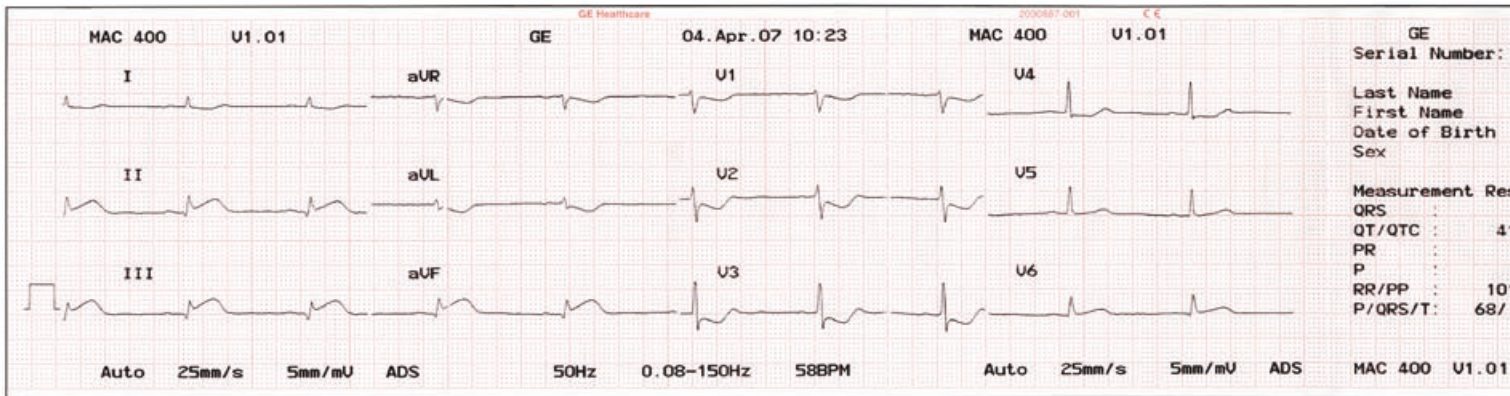
GE Healthcare offers a wide range of tested and approved quality accessories and consumables that are specifically designed to maintain the performance of the MAC 400.



Examples of ECG reports with Marquette 12SL analysis and interpretation program. The interpretation program is optional.



Normal ECG



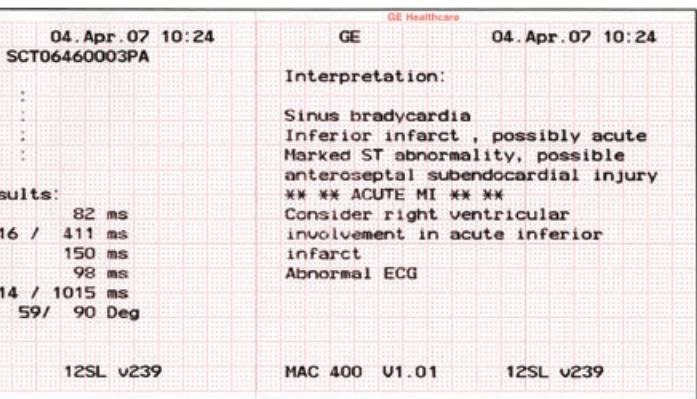
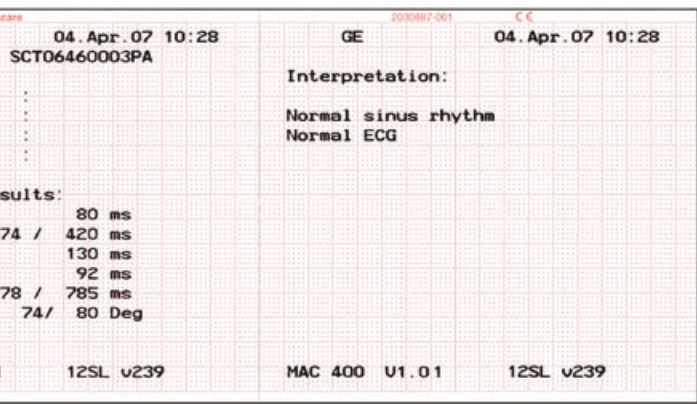
Acute Inferior Wall Myocardial Infarction

Instrument Type

Microprocessor augmented automatic electrocardiograph;
10-leadwire acquisition with programmable lead configuration

Processing

Acquisition & Analysis	12 leads – simultaneous
Signal input	Type CF according to IEC. However, not intended for direct cardiac application.
Digital Sampling	>1000 samples/second/channel
ECG analysis frequency	500 samples/second/channel
Dynamic Range	AC Differential $\pm 5\text{mV}$, DC offset (Polarization voltage) $\pm 300\text{ mV}$
Resolution	5 μV
Frequency Response	0.01 to 150 Hz
Low cut-off frequency	0.01 Hz, 0.04 Hz, 0.08 Hz or 0.16 Hz (-3 dB limits), equivalent to a time constant of 16 s, 4 s, 2s or 1 s
High cut-off frequency	150 Hz (-3 dB limits), 35 Hz or 20 Hz if muscle filter is enabled
Common Mode Rejection	> 100 dB @ 50/60 Hz (AC filter switched on)
Input Impedance	> 10 $\text{M}\Omega$ @ 10 Hz Defibrillator protected
Patient leakage	< 10 μA
Operating modes	Automatic (12lead data), Manual (real-time data), Arrhythmia (continuous monitoring)
Lead Printout Sequence	Standard (Einthoven), Cabrera
Report formats	Automatic: simultaneous (short and long format), sequential (with and without rhythm)



Heart rate meter	30 to 300 BPM $\pm 2\%$ or ± 1 BPM, whichever is greater. Heart rates outside this range will not be displayed.
Baseline Adjustment	Automatic adjustment of the baseline to the optimal recording range.
Anti-Drift System (ADS)	Automatic compensation of baseline
Lead-fail indication	Audible and visual indication of disconnected electrodes or line break; each single electrode is monitored except N/right leg
Software Options	Marquette 12SL ECG based measurement package gives QRS, QT/QTc, PR, P, RR/PP, and P/QRS/T Marquette 12SL ECG based analysis package for Analysis and Interpretation

Display

Type	LCD, 2 row x 16 character alphanumeric, with adjustable contrast.
Displayed Data	Selected Lead Group, Operation Mode, Lead Check, Heart Rate, AC Filter, Muscle Filter, Gain, Speed