

PS400

Patient Simulator

Technical Data



The PS400 is a basic patient simulator for quality-assurance testing of ECG machines, monitors and telemetry units.

The lightweight, handheld device features 12-lead ECG output and a single high-level output. Technicians can use manual or automatic sequence modes to check low- and high-frequency response, linearity, gain, damping, and paper speed. The PS400 also includes 12 arrhythmia selections to check arrhythmia detection systems and teach health care workers how to recognize normal and abnormal heart rhythms.

Using the PS400 is easy. The user interface features a menu selector switch and a simple-to-use rotary knob for selecting waveforms.

Key Features

- Handheld
- 12-lead ECG simulation
- 12 arrhythmia selections
- Universal ECG jacks
- Auto sequencing of performance waveforms
- Battery operated

Technical Specifications

Waveforms

ECG: 30, 60, 120, 180, and 240 BPM
Square Wave: 2 Hz
Sine Waves: 10, 40, 50, 60, and 100 Hz

Arrhythmias

Atrial fibrillation
Second-degree A-V block, type 1
Right-bundle-branch block
Premature atrial contraction
Premature ventricular contraction, early
Premature ventricular contraction, R on T
Multifocal PVCs
Bigeminy
Run of 5 PVCs
Ventricular tachycardia
Ventricular fibrillation
Paced

Automated Sequence

Pulse: 4 seconds
Sine Waves: 10, 40, 60, and 100 Hz
Triangle Wave: 2 Hz
Rate Accuracy: $\pm 0.5\%$

Amplitudes

Lead I: 0.5, 1, 1.5, and 2 mV
High-Level Output: 0.25, 0.5, 0.75, 1, and 1 V
Accuracy: $\pm 2\%$
2 Hz square wave at 2 mV (all leads)

Power

9 V alkaline battery for 200-hour life or line-operated via battery eliminator; 115 Vac or 230 Vac or 7.7-VDC, 100 mA, unregulated; connector, 2.5 mm center (+)

Dimensions

5.2 in L x 3.9 in W x 1.4 in H
(13.2 cm L x 9.9 cm W x 3.6 cm H)

Weight

0.9 lb (0.4 kg)

Temperature

Operating: 59 °F to 95 °F (15 °C to 35 °C),
Storage: 32 °F to 131 °F (0 °C to 55 °C)

About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today's challenges.

Fluke Biomedical Regulatory Commitment

As a medical device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 certified and our products are:

- FDA Compliant
- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required

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Ordering Information

Model

2558932: PS400 ECG/Arrhythmia Simulator

Standard Accessories

2572345: Operating manual
2248424: Soft-sided carrying case
2183983: Battery eliminator
N/A: 9 V battery

Optional Accessories

2200116: High-level ECG cable
2577801: Calibration manual

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Fluke Biomedical

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