



Biomedical

PS410 Patient Simulator

Technical Data



The PS410 is a compact high-performance simulator for patient monitor testing.

This handheld device simulates a full range of cardiac rhythms and a wide variety of ECG conditions. It includes pacemaker simulation, 35 arrhythmia selections, and adult and pediatric normal-sinus rhythms.

Small enough to fit in a pocket, the handy PS410 weighs less than a pound and is easy to operate. Technicians simply connect the simulator to the device under test and use the PS410 keypad to enter the code presets. The simulator then transmits the selected preset simulations to the device.

Key features

- Handheld
- 12-lead ECG simulation
- 12 arrhythmia selections
- Universal ECG jacks
- Auto sequencing of performance waveforms
- Battery operated
- PS410/DPM1B Bundle kit with custom carrying case for quick ECG/NIBP patient monitor testing



Specifications

Normal sinus rhythm (12-lead v	with independent outputs referenced to F	RL)		
Vormal rate	80 BPM			
Selectable rates	30, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, and 300 BPM			
Accuracy	± 1 %			
Dutput impedance	940 Ω between leads			
ECG amplitudes	0.5, 1, and 2 mV			
Amplitude accuracy	± 2 % Lead II			
High-level output	1000x Lead II			
Adult or pediatric ECG waveform				
ECG performance (Lead II)				
Square wave	2, and 0.125 Hz			
Pulse	30, 60, and 120 BPM; 60 ms pulse width			
Sine waves	0.5, 5, 10, 40, 50, and 60 Hz (1 mV amplitude only, lead II)			
Friangle wave	2 Hz			
ST segment analysis				
Elevated or depressed	-0.6 mV to 6 mV in, 0.2 mV steps			
Pacemaker				
Pacemaker rhythm Pacer non-capture* Pacer non-function	Demand pacer with occasional sinus	Demand pacer with frequent sinus A-V sequential		
Artifact selections				
50 Hz artifact 60 Hz artifact	Muscle artifact Baseline artifact	Respiration artifact		
Arrhythmia selections				
PVC1 left ventricular focus* PVC1 early, LV focus* PVC1 R on T, LV focus* Pair of PVCs* Run of 5 PVCs* Run of 11 PVCs* Multi-focal PVCs* PVC2 right ventricular focus* PVC2 early, RV focus* PVC2 R on T, RV focus* Bigeminy	Trigeminy PVCs at a rate of 6 per minute PVCs at a rate of 12 per minute PVCs at a rate of 24 per minute Ventricular tachycardia Ventricular fibrillation Ventricular fibrillation 1/2 size Supraventricular tachycardia Premature atrial contraction* Premature nodal contraction* Asystole Missed beat*	Nodal rhythm Irregular rhythm Atrial flutter Atrial fibrillation Atrial fibrillation 1/2 size Atrial tachycardia First-degree block Second-degree block Third-degree block Right-bundle-branch block Left-bundle-branch block		
Event occurs once. To repeat, enter the	selection again.			

General specifications			
Operation	Outputs are easily selected or adjusted using top-panel controls and the large two-digit numeric display		
Controls	Display	2-line LCD	
	Control	6 control keys; ON/OFF power switch	
Power	9 V battery/battery eliminator		
Housing	ABS plastic case		
Dimensions	11.3 cm L x 7 cm W x 3.4 cm H (6.1 in L x 3.7 in W x 1.3 in H)		
Weight	0.4 kg (0.9 lb)		
Temperature	Operating	15 °C to 35 °C (59 °F to 95 °F)	
	Storage	0 °C to 50 °C (32 °F to 122 °F)	

Ordering information

Item numbers/descriptions

PS410 PS410 Patient Simulator

PS410/DPM1B Bundle PS410/DPM1B Bundle Kit (includes PS410, DPM1B, all accessories, and a custom carrying case)

Standard accessories

MANUAL PS410 Users Manual (printed)

CD-ROM PS410 Users Manual (CD)

BE-UNVSL-IEC320C14 Battery Eliminator 100 V ac to 240 V ac

9 V Battery



Optional accessories

17024 Universal Banana Adapter 17191 Carrying Case, single pocket 17192 Carrying Case, double pocket

Distribuido por: celyon técnica, S.L. Pg. de les Torres, 100 Local 6 08191-RUBI (Barcelona) Tel.: 936 999 001 Fax.: 935 883 687 info@celyontecnica.com www.celyontecnica.com

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About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test 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. Highly credentialed and equipped with a NVLAP Lab Code 200566-6 accredited laboratory, Fluke Biomedical also offers the best in quality and customer service for all your equipment calibration needs. 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 test device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001

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

Fluke Biomedical.

Better products. More choices. One company.

Fluke Biomedical 6045 Cochran Road

Cleveland, OH 44139-3303 U.S.A. Fluke Biomedical Europe

Science Park Eindhoven 5110 5692EC Son, The Netherlands

For more information, contact us: In the U.S.A. (800) 850-4608 or Fax (440) 349-2307

In Europe/M-East/Africa +31 40 267 5435 or Fax +31 40 267 5436 From other countries +1 (440) 248-9300 or Fax +1 (440) 349-2307 Email: sales@flukebiomedical.com Web access: www.flukebiomedical.com

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