

DataSim 6100

SIMULADOR DE PACIENTE



Descripción

El simulador de paciente DataSim 6100 es una herramienta de entrenamiento versátil que dispone de seis canales para la generación de arritmias de ECG, presión y respiración. Enfermeras de cuidados críticos, especialistas clínicos e instructores tiene la posibilidad de generar un rango extenso de simulaciones, desde un simple ritmo sinusal normal hasta una compleja inserción de catéter Swan-Ganz. Dado que las formas de onda hemodinámicas son fisiológicamente sincronizadas, los estudiantes aprenden a identificar las presiones y las experiencias profesionales en el tratamiento de las arritmias del día a día.

Si el DataSim 6100 se conecta a un Arrhythmia Anne™, Resusci-Anne™ o Chris Clean™ los instructores pueden enseñar la forma correcta de desfibrilar a un paciente y conseguir el efecto deseado en la actividad del ECG y de la presión.

Un amplio rango de módulos opcionales está disponible para expandir las selecciones de formas de onda del DataSim 6100. Cada módulo se conecta en el panel frontal y dispone de una variedad especial de formas de onda y secuencias de formas de onda. Para realizar un entrenamiento aún más efectivo, un accesorio de adaptador de video presenta las formas de ECG y de la presión generadas por el DataSim 6100 en un aparato de TV estándar.

Diseñado convenientemente, entre otras prestaciones el DataSim 6100 dispone de un teclado portátil, que es conectado a la unidad por medio de un cable de tipo telefónico de 6 m. con un rango excepcional de movimiento.

Características principales

- Amplia capacidad de entrenamiento
- Interfaz con maniqués de desfibrilación Arrhythmia Anne™, Resusci-Anne™ y Chris Clean™
- Sincronización de formas de onda hemodinámicas
- Introducción manual de PAC y PVC
- Procedimiento Swan-Ganz
- Interfaz adaptador de video
- 6 canales para la generación de ECG, arritmia, presión y respiración

Características opcionales

- Módulos de expansión

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Technical Specifications

Display: 2 in H x 16 in W super twist LCD
Power: AC power provided by (choice of) 115 V or 230 V charger (standard with instrument)
Battery Type: 12 V, 1.9 AH sealed lead acid rechargeable
Battery Capacity: 20 hours
Battery Charge Time: 5 % to 95 % of complete charge in 10 hours

ECG

Output signals
High-Level: 1 V/1 mV

Heart Rate

Range: 30 BPM to 300 BPM
Accuracy: $\pm 1\%$

Output Connectors

Low-Level: 12-lead electrode snaps
High-Level: Switchcraft 15GM7F
Pacemaker Artifact: -8 mV , 1 ms
Sample Rate: 250 sample/s max

Performance Testing

Linearity: 2.5 Hz triangular wave
HR Cal Check: 30 BPM to 300 BPM
Chart Speed: 2.5 Hz square wave
Amplitude: 0.25 mV, 0.5 mV, 1 mV, 1.5 mV, 2 mV, and 2.5 mV

Blood Pressure

Output Signals
High-Level: 1V/100 mmHg
Transducer: 5 $\mu\text{V/V}$ mmHg and 40 $\mu\text{V/V}$ mmHg
Exciter Voltage: 10 VAC or DC max
Static Range: 0 mmHg to 250 mmHg, adjustable in 5 % increments
Accuracy: $\pm 5\%$ or 1 mmHg, whichever is greater
Waveforms: Static, square wave, and physiological dynamic
Output Connector: Switchcraft 15GM7F

Performance Testing

Static: 0 to 250 adjustable in 5 % increments
Square Wave: 0 mmHg to 250 mmHg adjustable in 5 % increments

Respiration

Output signals
Delta Impedance: 0.25 Ω to 2.5 Ω Lead I
Base Impedance: 250 Ω Lead I, 750 Ω Lead II
Rate Range: 0 BPM to 80 BPM
Lead: All leads

Performance testing

Rate: 0, 10, 20, 40, and 80 per min
Delta Impedance: 0.25 Ω , 0.5 Ω , 1 Ω , 1.5 Ω , 2, and 2.5 Ω
Coincidence check

General Information

Channels (6): ECG/arrhythmia, respiration, arterial pressure, PA pressure, RA pressure, and auxiliary channel for optional cardiac output, CO_2 , and other parameters.

Fundamental Rhythms and Sequences:

Normal sinus rhythm, sinus tachycardia and bradycardia, ventricular and sinus asystole, atrial tachycardia, atrial flutter and fibrillation, AV blocks (1st degree, 2nd degree Mobitz I and II, and 3rd degree), unifocal and multifocal PVCs, ventricular tachycardia, ventricular fibrillation, PVCs at 1/min to 35/min for any rhythm, couplet, triplet, bigeminy, junctional, accelerated junctional, PACs and PJC's, atrial tachycardia with aberrant conduction, idioventricular, agonal, ST-segment elevation and depression, pacemaker (atrial, ventricular, and AV sequential), failure to capture and sense, bundle-branch block, cardiac-failure sequence, and conversion sequence.

Dimensions

4.7 in L x 10 in W x 13 in H
(11.94 cm L x 25.4 cm W x 33 cm H)

Weight

7.05 lb (3.2 kg)

Optional Personality Modules

Intra-Aortic Balloon Assist (9513-0139): Early inflation, early deflation, proper timing, late inflation, late deflation. Five augmented arterial waveforms only. Not interactive with the LABP.

Pediatric ECG (2244432): Sinus arrhythmia, junctional, wandering pacemaker, enlarged atrium, junctional escape, hyperkalemia, CPR artifact, supraventricular tach @ 185 BPM, and supraventricular tach @240 BPM

Ordering Information

Model

2247742:	DATASIM6100US120V
2395218:	DATASIM6100AUS250V
2395229:	DATASIM6100DEN250V
2395234:	DATASIM6100SHK250V
2395241:	DATASIM6100ISR250V
2395252:	DATASIM6100ITAL250V
2395265:	DATASIM6100IND250V
2395276:	DATASIM6100SWZ250V
2395283:	DATASIM6100UK ₂ 50V

Standard Accessories

2242959:	Operator's manual
2392337:	LCD pendant controller
2184111:	120 VAC battery charger (wall mount)
2184127:	220 VAC battery charger (desktop, international version)

Optional Accessories

Blood Pressure Cables

2392213:	BCI International 4100-09 (6 M)
2392213:	Criticare Systems (1100) 4100-09 (6 M)
2392213:	Critikon (Dinamap Plus) 4100-09 (6 M)
2392208:	Datascope (800 series) 4100-08 (6 F)
2199456:	Fakuda Denshi (DS 3300) 4100-61 (12 M)
2199474:	GE Marquette Medical (PPG/E for M: DR, IR, IM4, VR series) 4100-11 (6 F)
2392208:	GE Marquette Medical (PDS 3100) 4100-08 (6 F)
2199508:	GE Marquette Medical (7000/Early Tram - AR series only) 4100-23 (8 M)
2199549:	GE Marquette Medical (Dash, Eagle, Solar, Tram, and MacLab) 4100-60 (rectangular - 11 M)
2199400:	Hewlett Packard 5 μ V (78300, - 500, - 800, and Merlin/Viridia/Omnicare) 4100-04 (12 M)
2199417:	Hewlett Packard 40 μ V (78300, - 500, - 800, and Merlin/Viridia/Omnicare) 4100-05 (12 M)
2392213:	In vivo Research (Omni-Trak) 4100-09 (6 M)
2392213:	Ivy Biomedical 4100-09 (6 M)
2199495:	Kontron (Mini-, Super-, Color-Mon) 4100-20 (6 M)
2392213:	MDE (Escort series) 4100-09 (6 M)
2392213:	Mennen Medical (All) 4100-09 (6 M)
2392213:	North American Drager (Vitalert 2000) 4100-09 (6 M)
2392213:	Ohmeda (Modulus CD-CV) 4100-90 (6 M)
2392213:	Protocol Systems (Propaq Series 100) 4100-09 (6 M)
2392213:	Physio Control (All) 4100-09 (6 M)
2199463:	Quinton (Q-Cath) 4100-62 (6 M)
2199513:	Siemens Mingo (Cath System) 4100-42 b (7 F)
2199421:	SpaceLabs (Alpha 9, Alpha 14, 703R) 4100-06 (5 M)
2392213:	SpaceLabs (1050, 1700, PCMS series) (for use with SpaceLabs adapters 700-0028-00 and 0120-0551-00 when testing the multiparameter Ultraview Command Module) 4100-09 (6 M)
2199393:	Unterminated BP cable 4100-01 (7-pin DIN, one end only)
2199474:	Witt Biomedical 4100-11 (6 F)

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

General-Purpose Cables

2199524:	ECG high-level stereo to 1/4 in phone jack
2244426:	6070-01B intra-aortic balloon assist (manual IABP waveform selection)
2244432:	6070-03B pediatric ECG
2244444:	6070-05B intra-cranial pressures (ICP) (5 μ V/V/mm or 40 μ V/V/mmHg; transducer sensitivity only)
2244459:	6070-06B advanced pacer
2244498:	6070-11B left heart pressures
2244500:	6070-12B valve disease
2244556:	6070-17B ST segments
2244588:	6070-18B cardiac output injectate temp = 32 °F (0 °C)
2244595:	6070-19B Marquette CO module
2244602:	6070-20B cardiac output injectate temp = 77 °F (25 °C)
2244706:	6070-37B normal/Diseased Heart
2244678:	6070-29B Interactive IABP datascopes (Series 90)

Note: Interactive IABP modules augment the arterial pressure in response to inflation/deflation signals from the intra-aortic balloon pump. Both the invasive arterial BP and synchronization/timing cables are included with the above modules. These IABP modules are compatible only with the listed brand and model IABP.

2244563:	6070-10B MCL1 set (set includes the three following modules listed: 2392734, 2392741, and 2392752)
2392734:	6070-07B MCL1 atrials
2392741:	6070-08B MCL1 blocks
2392752:	6070-09B MCL1 ectopy/aberrancy
2244517:	6070-13B 12-lead set (set includes the three following modules listed: 2392765, 2392776, and 2392783)
2392765:	6070-14B 12-lead normal ECG
2392776:	6070-15B 12-lead anterior infarct
2392783:	6070-16B 12-lead inferior infarct

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