

Szimulátor páciens monitorok ellenőrzéséhez

IBP, IBP, ECG, hőmérséklet, aritmia, respiration, szívárgás detektálás és egyéb funkciók

Kis méret, kis súly, egyszerű kezelhetőség

Nyomáskimenet 0... ±500 mmHg

±1% (a mért értékre) nyomásmérési pontosság

Digitális nyomás offset

Teljes nyomás és BP hullámformák kijelzése

Adult, Neonatal, Hypertensive és Hypotensive

üzemmódok

SpO2 kész - kompatibilis Seculife PULS Oximeter-rel

Flash programozható, helyszínen frissíthető program

RS232 interfész

Nyomás csúcserték detektálás egyszerű alaphelyzetbe

állítással (opció)

ECG kimenet teljes NSR hullámformával

Szinkronizált invazív vérnyomás kijelzése

YSI 400 és 700 szimulációs hőmérséklet

A SECULIFE NIBP készülék egy kisméretű, egyszerűen használható, többfunkciós, a felhasználó igényeit maximálisan kielégítő készülék. Kis mérete ellenére ez a többfunkciós szimulátor valódi kimenetekkel rendelkezik. A készülék fő erőssége, hogy a különböző NIBP gyártók igényeit is kielégíti. A grafikus kijelző nem csak arra ad lehetőséget, hogy lássuk, mi történik, hanem arra is, hogy a nyomásváltozás értékét egy görbén láthassuk. A flash memória lehetőséget ad a gyártó Web-oldalán megjelenő frissítések telepítésére.

SECULIFE | BP_{PRO} has a connection to the SpO2 simulation, using a 7-pin Mini-DIN cable and external „SECULIFE | PULS Oximeter Module“. In this manner you can display oxygen saturation across transcutaneous light sensor by absorption measurement.

SECULIFE BPPRO KIT (M695W)



Purchase parts

- 1 Operating Instructions
- 1 Transport case
- 1 Battery
- 1 Power support (model U.S.)
- 1 Power support (model EU)

Technical Data

Device:

- Construction: 17,8 x 12,7 x 10,2 cm/ABS Plastik
- Weight: < 3 Lbs (< 1,36 kg)
- Face Plate: Lexan/Back printed
- Operating Range: 15 to 40 °C
- Storage Range: -20 to 65 °C

General:

- Display: LCD Graphical 128 x 64 pixel
- Backlight: Yes
- Lead Test Terminals: No
- RS232: Yes
- Power: 6 x 1,5 V AA
- Battery Eliminator: Yes

Pacemaker	Yes
Arrhythmias	6
Blood Pressure	1
Temperature	YSI 400/700 0, 24, 30, 37, 40 °C (± 0.1 °C Accuracy)

PACEMAKER WAVEFORMS

- Amplitude: 3 mV (±10% accuracy)
- Width: 6 ms (±5 % accuracy)

RESPIRATION

- Rate accuracy: ±1 %
- Impedance delta: Delta 3,0 Ohm (±10% accuracy)
- Baseline: 1000 Ohm (±5% accuracy)

Further information:

BLOOD PRESSURE / INVASIVE BLOOD PRESSURE		ECG NSR / EKG PERFORMANCE	
Blood Pressure:		ECG-NSR	
Range	±500 mm Hg 20 °C	Rate	30, 60, 120, 240 BPM (±1% accuracy)
Accuracy	±(1% of Reading + 0.5 mm Hg)	Amplitude	2,75 mV (±2% accuracy)
Rate	80, 94 bpm (synched to ECG)		
Impulse accuracy	±1%		
		ECG-Performance	
Invasive Blood Pres.:		Sine Wave	10, 60, 100 Hz
Static pressure	-10, -5, 0, 20, 40, 50, 60, 80, 100, 150, 160, 200, 240, 250, 300, 320, 400 mm Hg	Square Wave	0,125; 2000 Hz
Accuracy	±(1% Full Range ±1mm Hg) or ±(2% Setting + 2mm Hg)	Triangle Wave	2000 Hz
Impedance	300 Ohm (±10% accuracy)	Rate Accuracy	±1 %
Sensitivity	5 or 40 uV/V/mm Hg	Amplitude	2,75 mV (+/- 2% accuracy)

Ordering information

Description	Type	Order number
Multi-parameter Simulator	SECULIFE BPPRO	M695P
SECULIFE BP _{pro} , Bag, NIPB AD1, NIBP AD2, NIBP AD3, NIBP AD4, NIBP AD5	SECULIFE BPPRO KIT	M695W

Options

Description	Type	Order number
Fetal/Maternal Simulation	Fetal/Maternal	Z695P
Cardiac Output Simulation	Cardiac Output	Z695O

Functions:

ECG-NSR	Yes
Leads	10
Rates	4
Amplitudes	1
QRS Interval	Adult, Neonatal, Hypertensive, Hypotensive
ST Segment Elevation	No
ECG-Performance	Yes
Sine Waves	3
Square Waves	2
Triangle Waves	1
Pulse Waves	0
Respiration	Yes
Rate	4
Baseline	1
Delta Impedance	1
NIPB	Yes
Rates	80,94 BPM
Pressure Output	±500 mm Hg
Special Modes	Yes
SpO2 Simulation	With Seculife OX
Lead Test	Yes
Manometer	Yes

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GMC-I MESSTECHNIK Pulse Oximeter Module, SECULIFE OX



The SECULIFE OX can plug into the auxiliary port of patient simulators providing a calibrated pulse rate.

Features

- Accepts the FingerSims to provide SpO2 outputs
- Pulse Synchronized with the SECULIFE PS200, PS300 & BP PRO patient simulators via aux port
- Powered via Aux Port

FingerSims required, but not included.

Article No: Z695A



GMC-I MESSTECHNIK

Finger Simulator for Pulse Oximeter Testing, FINGERSIM



The FingerSim enables the healthcare professional to evaluate pulse oximeter and sensor function at three simulated light absorption conditions.

These absorption conditions are set to simulate a typical finger at nominally 97, 90, and 80% SpO2 levels. In addition, a pulse oximeter's response to various pulse amplitudes and rates can be simulated.

Article No: Z695K

GMC-I MESSTECHNIK

Fingersim set with finger holder, FINGERSIM SET



The pulse oximeter test system enables the healthcare professional to evaluate pulse oximeter and sensor function at three simulated light absorption conditions.

These absorption conditions are set to simulate a typical finger at nominally 97, 90 and 80% SpO2 levels. In addition, a pulse oximeter's response to various pulse amplitudes and rates can be simulated.

Scope of delivery: 3 FingerSims with 80, 90 und 97% saturation levels, carrying case and user manual

Article No: Z695B

FingerSim
FingerSim as spare parts:
See article no. Z695K



GMC-I MESSTECHNIK

Additional Accessories for SECULIFE BP PRO

Additional Accessories for SECULIFE BP PRO		
Type	Description	Article No.
Fetal/Maternal	Fetal/Maternal Simulation, Software Key	Z695P
Cardiac Output	Cardiac Output Simulation, Software Key and Cardiac Box	Z6900
NIBP Carry	Soft Carrying Case	Z695E
NIBP AD1	DINAMAP / Critikon Adapter	Z695F
NIBP AD2	Quick Disconnect Adapter	Z695G
NIBP AD3	Luer Adapter	Z695H
NIBP AD4	Marquette Adapter	Z695I
NIBP AD5	Bulb Adapter	Z695J

Invasive Blood Pressure Cables – Mini DIN



For use with GMC-I brand Multiparameter Patient Simulators. These cables come with the mini DIN style connector (see connector style AA in the connector reference), which is the same as the connector supplied on older (vintage) Bio-Tek Instruments simulators and current model Fluke Biomedical Multiparameter simulators.

Monitor Manufacturer	Description (BP connector listed below to Male mini DIN at simulator end)	Part #	BP Cable Connector Key
Burdick	10-pin Female	20-41309	B
Care	5-pin Male	Call Factory	C
Corometrics	3-pin Male / 3-Pin Female	Call Factory	E
Corometrics	12-pin Male (IUP Cable)	20-41343	M
Criticare	6-pin Male	20-41301	H
Critikon	6-pin Male	20-41301	H
Datascope	6-pin Female	20-41308	F
Datex DX-1	10-pin Female	20-41309	B
Fukuda Denshi FD-2 / DS3300	12-pin Male	20-41311	V
Gould/Statham	5-pin Male	Call Factory	C
Hewlett Packard/Agilent/Philips	5-pin Female	Call Factory	J
Hewlett Packard/Agilent/Philips	12-pin Male (40 uV)	20-41315	I
Hewlett Packard/Agilent/Philips	12-pin Male (5 uV) (Most common)	20-41314	I
Hewlett Packard/Agilent/Philips	12-pin Male (IUP Cable)	20-41344	PP
Invivo Research	6-pin Male	20-41301	H
Ivy Biomedical	6-pin Male	20-41301	H
Kontron/Roche	12-pin Female	20-41318	X
GE Marquette 7000	8-pin Male	Call Factory	P
GE Marquette Eagle MQ-3	11-pin Male (Most common)	20-41320	N
GE Marquette Twin	7-pin Male / 8-pin Male	Call Factory	D
GE Marquette MQ-2	9-pin Female	20-41319	OO
Medical Data Electronics (MDE)	6-pin Male	20-41322	H
Mennen Medical	10-pin Male	20-41323	II
Nihon Kohden	5-pin Male	20-41324	O
North American Drager	6-pin Male	20-41301	H
Novamatrix	3-pin Male / 3-pin Female	Call Factory	E
Ohmeda	6-pin Male	20-41301	H
Physio Control	6-pin Male	20-41301	H
Protocol Systems	6-pin Male	20-41301	H
Puritan Bennett	10-pin Female	Call Factory	B
Puritan Bennett PB-2	10-pin Female	20-41309	B
Siemens Medical Solutions SM-1	10-pin Male	20-41329	HH
Siemens Medical Solutions SM-3	15-pin Male	20-41328	Y
SMEC	6-pin Female	20-41308	F
Spacelabs (TK-1)	6-pin Male (Most common)	20-41301	H
Spacelabs/Squib	5-pin Male	20-41331	Q
Tektronix/Squib	6-pin Male	20-41301	H
Vitastat	5-pin Male	20-41331	Q
Vitatek/Squib	6-pin Male	20-41301	H
Witt	6-pin Female	20-41355	F
Universal BP Cable	Unterminated Pigtail	20-41340	Not Shown
Universal - Adapter	BP Cable Adapter - Mini DIN Male to Large DIN Female	20-40736	AA - BB
Universal - Adapter	BP Cable Adapter - Mini DIN Female to Large DIN Male	20-40737	BB - AA

Invasive Blood Pressure Cables – Large DIN



These cables come with the large 5-pin DIN connector (see connector style BB in the connector reference) which is the same as the connector supplied on older vintage Dynatech Nevada, DNI Nevada Blood Pressure cables and new Fluke Prosim series.

Monitor Manufacturer	Description (BP connector listed below to Male large DIN at simulator end)	Part #	BP Cable Connector Key
Burdick	10-pin Female	20-40303	B
Care	5-pin Male	Call Factory	C
Corometrics	3-pin Male / 3-Pin Female	Call Factory	E
Corometrics	12-pin Male	Call Factory	M
Criticare	6-pin Male	20-40301	H
Critikon	6-pin Male	20-40301	H
Datascope	6-pin Female	20-40302	F
Datex DX-1	10-pin Female	20-40303	B
Fukuda Denshi FD-2 / DS3300	12-pin Male	20-40304	V
Gould/Statham	5-pin Male	Call Factory	C
Hewlett Packard/Agilent/Philips	5-pin Female	Call Factory	J
Hewlett Packard/Agilent/Philips	12-pin Male (40 uV)	20-40310	I
Hewlett Packard/Agilent/Philips	12-pin Male (5 uV) (Most common)	20-40309	I
Invivo Research	6-pin Male	20-40301	H
Ivy Biomedical	6-pin Male	20-40301	H
GE Marquette 7000	8-pin Male	Call Factory	P
GE Marquette Eagle	11-pin Male	20-40308	N
GE Marquette Twin	7-pin Male / 8-pin Male	Call Factory	D
GE Marquette MQ-2	11-pin Male (Most common)	20-40307	W
Medical Data Electronics (MDE)	6-pin Male	20-40314	H
Mennen Medical	10-pin Male	20-40315	II
Nihon Kohden	5-pin Male	20-40316	O
North American Drager	6-pin Male	20-40301	H
Novamatrix	3-pin Male / 3-pin Female	Call Factory	E
Ohmeda	6-pin Male	20-40301	H
Physio Control	6-pin Male	20-40301	H
Protocol Systems	6-pin Male	20-40301	H
Puritan Bennett	10-pin Female	Call Factory	B
Puritan Bennett PB-2	10-pin Female	20-40303	B
Siemens Medical Solutions SM-1	10-pin Male	20-40318	HH
Siemens Medical Solutions SM-3	15-pin Male	20-40319	Y
SMEC	6-pin Female	20-40302	F
Spacelabs (TK-1)	6-pin Male	20-40301	H
Spacelabs/Squib	5-pin Male	20-40320	Q
Tektronix/Squib	6-pin Male	20-40301	H
Vitastat	5-pin Male	20-40320	Q
Vitatek/Squib	6-pin Male	20-40301	H
Universal BP Cable	Unterminated Pigtail	20-40332	Not Shown
Universal - Adapter	BP Cable Adapter - Mini DIN Male to Large DIN Female	20-40736	AA - BB
Universal - Adapter	BP Cable Adapter - Mini DIN Female to Large DIN Male	20-40737	BB - AA

Temperature Cables



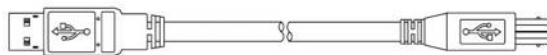
Description	Connector A	Connector B	Part #
UT-1 Universal Temp Cable YSI-400 Series (PS-200 & PS-300 family)	T (Male)	CC	20-41333
UT-2 Universal Temp Cable YSI-700 Series (PS-200 & PS-300 family)	T (Male)	DD	20-41334
Universal Temperature Cable (Unterminated)	T (Male)	None	20-41351
Temperature Cable, Hewlett Packard Simulation Cable	U (3.5 mm Male)	S (Male)	Call Factory
UT-1 Temperature Cable, MaxiSim/416M YSI-400	NN	CC	20-30010
UT-2 Temperature Cable, MaxiSim/416M YSI-700	NN	DD	20-30020
UT-3 Temperature Cable, MaxiSim/416M Unterminated	NN	None	20-30030
Temperature Cable, Hewlett Packard YSI-400	NN	S (Male)	20-30035

Cardiac Output Cables



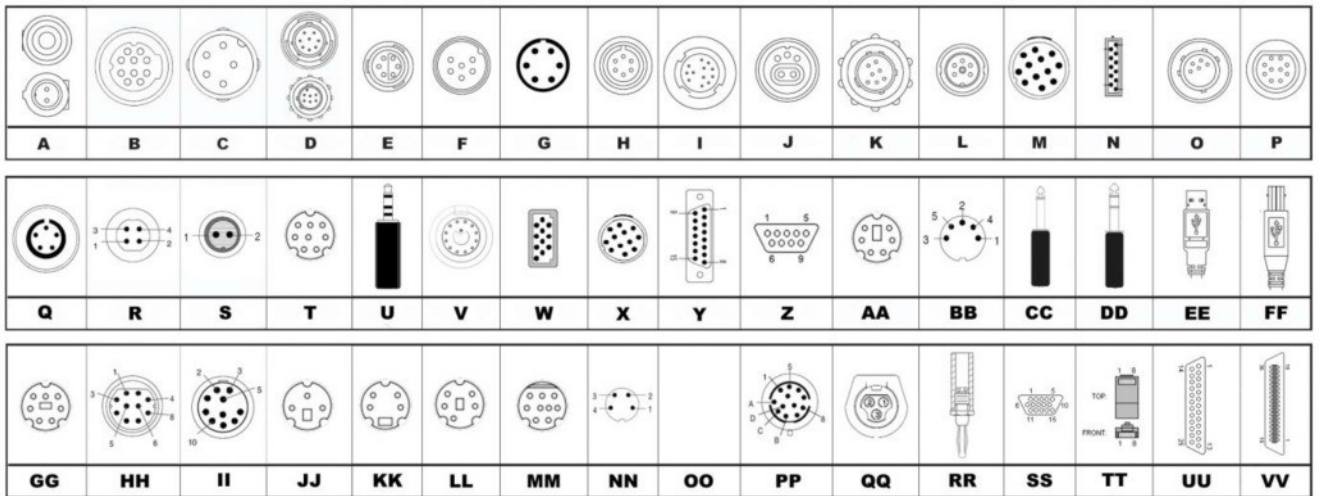
Description	Connector A	Connector B	Part #
Cardiac Output Cable, HP Injectate Assembly	CC (% - inch Phone Plug)	R (Female 4-pin)	20-41335
Cardiac Output Cable, HP Temperature Cable	A (Female % - inch Phone Plug)	A (Male 2-pin HP)	20-41336

Communication & Miscellaneous Cables



Description	Connector A	Connector B	Part #
Communications cable for PS-200, PS-300, NIBP Series, (Mini DIN M to DB 9 F) - also used with Flash Update Programming Utility Software	GG (Male)	Z (Female)	20-41337
Cable Adapter for PS-200, PS-300, NIBP Series, DF+ (USB to DB 9 M) - used on a PC that does not have an RS232 port -includes cable and CD with driver software	EE	Z (Male)	20-41339
Communication Cable for DF+ & ES Series (DB 9 M to DB 9 F)	Z (Male)	Z (Female)	20-41341
Communication Cable for the ES Series USB(A)M to USB(B)M	EE	FF	20-41352
IF+ Instrument to Chamber Interconnect Cable (Mini DIN M to Mini DIN M)	T (Male)	T (Male)	20-40607
Communication RS232, USB(A)M to Mini DIN Male	GG (Male)	EE	20-41361

Cable Connector Key



NIBP Adapter



D



E



F



G



H

Description	Connector A	Connector B	Part #
DINAMAP / Criticon Adapter	D	D	20-40714
Quick Disconnect Adapter	E	E	20-40715
Luer Adapter	F	F	20-40716
Marquette Adapter	G	G	20-40717
Bulb Adapter	H	H	20-40608
USB to RS232 Adapter	USB	RS232	20-41339