

CuffLink

ANALIZADOR / SIMULADOR DE PRESIÓN NO INVASIVA PANI (NIBP)



Descripción

El analizador de presión no invasiva PANI (NIBP) CuffLink ofrece una rápida, fiable y adecuada forma de evaluar el funcionamiento y prestaciones de las señales PANI oscilométricas.

Con las selecciones programables por el usuario. El CuffLink simulará un rango completo de formas de onda dinámicas de PANI normal, hipertenso e hipotenso representando pacientes típicos adulto, infantil y neonatal. El analizador puede también generar selecciones de ritmo normal, bradicardia y taquicardia con un amplio rango de pulso periférico débil, normal y vigoroso. Una variedad de parámetros permiten la creación y almacenamiento dentro del analizador de cinco auto-secuencias personalizadas. Además de programar los valores de la presión, estas auto-secuencias pueden incluir presión estática, fuga y pruebas de la válvula de descarga de sobrepresión.

CuffLink dispone de un compresor interno, mediciones automáticas de presión estática, prueba de fugas y prueba de válvula de descarga. La selección y ajuste de los niveles de presión de brazal es fácil y produce unos niveles de inflado del brazal para las pruebas.

Características principales

- Simulación dinámica oscilométrica de presión no invasiva
- Mediciones de presión estática automatizadas, prueba de fugas y prueba de válvula de descarga
- Cinco auto-secuencias automatizadas de pruebas de PANI
- Cinco selecciones de arritmia
- Valores de frecuencia cardíaca ajustables
- Interfaz directo con medTester 5000C

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Technical specifications

Power

120/250 V ac, 50 W average,
100 W peak, 50/60 Hz

Analog outputs

Cuff pressure

0 mmHg to 499.95 mmHg FS \pm 1
% of reading, 10 mV/mmHg

Pulse pressure

0 mmHg to 5 mmHg FS \pm 1 of
reading, 1 V/mmHg

Digital manometer

Pressure

499.75 mmHg (maximum)

Measurement parameters

Instantaneous and peak

Displayed graphics

Dynamic real-time NIBP
cuff-pressure waveform
programmed peripheral pulse
and envelope waveforms

Display

Alphanumeric graphic display (LCD)

Alphanumeric mode

8 lines x 40 characters

Graphics mode

64 vertical x 240 horizontal dot
matrix, backlight with viewing
angle adjustment

Digital interfaces

RS-232/Serial

Bidirectional; downloads cuff
measurement data and controls
test features with a compatible
computer or via the medTester
5000C with the medCheck option.

Parallel printer

Centronics compatible

Pulse sync

0 V dc to 5 V dc (TTL)

Cuff mandrel

Interlocking plastic blocks

Four cuff circumferences,
including:

39.5 cm (large adult)
33 cm (adult)
26.6 cm (small adult)
20 cm (child)

Truncated plastic cylinders

Three neonatal cuff
circumferences, including:

14 cm
10 cm
7.6 cm

Pop-off valve testing

Automatic test for operation of
the monitor's relief valve

Measurement parameters

instantaneous and peak pressure

Maximum pressure

499.75 mmHg

System leak testing

Start pressure

499.75 mmHg max

Elapsed time

60 s (fixed)

Leak-rate range

0.25 mmHg/min to
499.75 mmHg/min

Pump

2 liters/minute minimum (free flow)

Accuracy

Systolic/diastolic mean arterial pressure (MAP)

\pm 1 % of target value

Cuff pressure

\pm 1 % of reading \pm 1 mmHg

Input overpressure limit

\pm 1500 mmHg

Autosequences

- Up to five user-programmable sequences to test NIBP monitors with a specific series of CuffLink performance tests, including static pressure test, leak test, and pop-off test
- Up to eight adult-neonatal-arrhythmia dynamic NIBP selections, each of which can be cycled up to 99 times during the sequence
- Printable test report

Displayed real-time parameters

Instantaneous cuff pressure

0 mmHg to 300 mmHg

Peak cuff pressure

500 mmHg peak

Inflate/deflate time

0.1 s to 999.9 s

Inflate/deflate rate

0.1 mmHg/s to 999.9 mmHg/s

Total measurement time

0 s to 999.9 s max

Selected heart rate

30 BPM, 40 BPM, 60 BPM,
80 BPM, 120 BPM, 160 BPM,
200 BPM, and 240 BPM

Selected systolic/diastolic

target values

Mean Arterial Pressure (MAP)

target value

Dynamic non-invasive blood pressure

Simulation of a range of normal,
hypertensive and hypotensive
dynamic noninvasive blood
pressures for typical adult, infant,
and neonatal patients. Generation
of normal, bradycardia, and
tachycardia rhythm selections
with a wide range of user-
programmable peripheral pulse
amplitudes (weak, normal and
strong)

Compatible with oscillometric
NIBP devices

Preprogrammed target value selections

Adult systolic/diastolic (MAP)
(mmHg):

60/30 (40)
80/50 (62)
400/65 (75)
120/80 (90)
150/100 (115)
200/150 (165)
255/195 (215)

Neonatal/pediatric systolic/diastolic

Above selections, excluding
255/195 and 200/150

Repeatability

\pm 1 % of selected target value

Adult arrhythmia selections

- Baseline NIBP target value (120/80) (NSR)
- Atrial fibrillation (A-Fib)
- Premature atrial contraction (PAC)
- Premature ventricular contraction (PVC)
- Missed beat (MB)
- Aberrant sinus conduction (AS)

Preprogrammed peripheral pulse waveforms

- Pulse amplitude at MAP: 2 mmHg (typical adult value)
- Pulse volume range: 0 ml to 5.1 ml
- Pulse rise time: 80 ms (min)
- Heart rates (adult and neonate): 30 BPM, 40 BPM, 60 BPM, 80 BPM, 120 BPM, 160 BPM, 200 BPM, and 240 BPM
- Heart-rate accuracy: ± 1 % of selected rate

Preprogrammable target value shifts

Horizontal axis: Preprogrammed target value selections shifted in 1.0 mmHg steps over a maximum range of ± 300 mmHg to increase or decrease dynamic pressure values

Vertical axis: Relative amplitude shifted in 1 % increments over a maximum range from 0 % to 200 % to simulate weak, normal, and strong peripheral pulses

Dimensions (LxWxH)

38.1 cm x 31.75 cm x 12.7 cm
(15 in x 12.5 in x 5 in)

Weight

6.82 kg (15 lb)

Ordering information

- 2246985** CuffLink Non-Invasive Blood Pressure Analyzer - US 120 V
- 2399820** CuffLink Non-Invasive Blood Pressure Analyzer - AUS 250 V
- 2399835** CuffLink Non-Invasive Blood Pressure Analyzer - DEN 250 V
- 2399873** CuffLink Non-Invasive Blood Pressure Analyzer - IND 250 V
- 2399858** CuffLink Non-Invasive Blood Pressure Analyzer - ISR 250 V
- 2399864** CuffLink Non-Invasive Blood Pressure Analyzer - ITAL 250 V
- 2399847** CuffLink Non-Invasive Blood Pressure Analyzer - SHK 250 V
- 2399886** CuffLink Non-Invasive Blood Pressure Analyzer - SWZ 250 V
- 2399899** CuffLink Non-Invasive Blood Pressure Analyzer - UK 250 V

Standard accessories

- 2242915** Operating Manual
- 2392381** Three Spacer Blocks
- 2392370** Two End Blocks
- 2392328** External Cuff Mandrel Neonatal
- 2245300** CuffLink Adapter Kit
- 2392832** Accessory Pouch

Optional accessories

- 2392381** Adult Cuff Mandrel Spacer Blocks (3 required)
- 2392370** Adult Cuff Mandrel End Blocks (2 required)
- 2392328** Neonatal/External Cuff Mandrel (truncated plastic cylinder diameters: 7.6 cm, 10 cm and 14 cm)
- 2392642** Cuff/Hose Adapter (Clippard): Critikon Dinamap, MDE, Invivo Research for Adult Cuffs

Optional accessories (continued)

- 2392656** Cuff/Hose Adapter (Colder): Protocol Systems
- 2392663** Cuff/Hose Adapter (OBAC): HP/Agilent/Philips, Alaris 4400
- 2392674** Cuff/Hose Adapter (Luer non-locking male): Critikon, Dinamap, MDE, Invivo Research, SpaceLabs Medical for Neonatal Cuffs)
- 2392688** Cuff/Hose Adapter (Luer-locking male)
- 2392695** Cuff/Hose Adapter (0.25 in barb)
- 2392707** Cuff/Hose Adapter (0.170 in barb)
- 2392718** Cuff/Hose Adapter (0.25 in barb): IVAC/Alaris 4200
- 2245300** CuffLink Adapter Kit (Complete set of eight cuff/hose adapters)
- 2392304** Quick Disconnect Panel Mount Connector (Replacement connector for NIBP interface)
- 2198760** Detachable Cord Set, 250 V/10 A - Australia
- 2200218** Detachable Cord Set, 250 V/10 A - Denmark
- 2200241** Detachable Cord Set, 250 V/10 A - Israel
- 2198785** Detachable Cord Set, 250 V/10 A - Italy
- 2200229** Detachable Cord Set, 250 V/10 A - Old British/India/South Africa
- 2248587** Multi-Purpose Hard-Sided Watertight Carrying Case (contains "pick and pluck" foam). WxDxH: 35.5 cm x 48.3 cm x 19.7 cm (14 in x 19 in x 7.75 in)

About Fluke Biomedical

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