



HE INSTRUMENTS LLC

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CALIBRATION CERTIFICATE

CERTIFICATE NUMBER: CTPC-A7F3 PAGE 1 OF 2

is hereby issued to
BIOMEDICAL CORPORATION
31 SPOONER STREET
QUAHOG (02802)
RHODE ISLAND
UNITED STATES

for calibration of
HE INSTRUMENTS
TECHPATIENT CARDIO V4
ECG SIMULATOR
SERIAL NUMBER: TPC9939

CALIBRATION CONDITIONS

Temperature	(73 ± 1) °F
Relative Humidity	(42 ± 3) %HR
Calibration Date	DEC 20, 2017

STANDARDS USED FOR CALIBRATION

MANUFACTURER	MODEL #	SERIAL #	STD. CAL. DUE
Agilent	34410A	MY53001287	MAY 24, 2018

CALIBRATION PROCEDURE

Calibration to standards by direct measurement according to specific procedure SPO2EN.

TEST RESULTS

We hereby confirm that the above equipment has been tested and calibrated, and conforms to the manufacturer's specifications on the calibrated values, as listed on the Operator's Manual.

SELECTED %DC	LEAD	DC VOLTAGE	MEASURED VALUE	COMBINED UNCERTAINTY (k=2)
0 %	I	0.000000 V	-0.000002 V	± 0.000006 V
0 %	II	0.000000 V	-0.000001 V	± 0.000006 V
0 %	III	0.000000 V	0.000001 V	± 0.000006 V
0 %	V1	0.000000 V	0.000001 V	± 0.000006 V
0 %	V2	0.000000 V	0.000002 V	± 0.000006 V
0 %	V3	0.000000 V	0.000003 V	± 0.000006 V
0 %	V4	0.000000 V	-0.000001 V	± 0.000006 V
0 %	V5	0.000000 V	-0.000002 V	± 0.000006 V
0 %	V6	0.000000 V	-0.000002 V	± 0.000006 V
12.5 %	II	0.000500 V	0.000501 V	± 0.000006 V
25 %	II	0.001000 V	0.000999 V	± 0.000006 V
50 %	II	0.002000 V	0.001998 V	± 0.000006 V
100 %	I	0.002000 V	0.002001 V	± 0.000006 V
100 %	II	0.004000 V	0.004001 V	± 0.000006 V
100 %	III	0.002000 V	0.002000 V	± 0.000006 V
100 %	V1	0.004000 V	0.004004 V	± 0.000006 V
100 %	V2	0.004000 V	0.003999 V	± 0.000006 V
100 %	V3	0.004000 V	0.003997 V	± 0.000006 V
100 %	V4	0.004000 V	0.004002 V	± 0.000006 V
100 %	V5	0.004000 V	0.004000 V	± 0.000006 V
100 %	V6	0.004000 V	0.003998 V	± 0.000006 V

SIGNATURE



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CERTIFICATE NUMBER: CTPC-A7F3

PAGE 2 OF 2

TEST RESULTS (CONT.)

SELECTED BPM	PULSE INTERVAL	MEASURED VALUE	COMBINED UNCERTAINTY (k=2)
60 BPM	1.0000 s	0.9999 s	± 0.0005 s
80 BPM	0.7500 s	0.7499 s	± 0.0004 s
100 BPM	0.6000 s	0.6000 s	± 0.0003 s

TRACEABILITY AND CONFORMITY

Combined uncertainty was calculated using a coverage factor $k=2$ corresponding to an approximate confidence level of 95% considering a normal distribution. It includes terms that consider the measurement method and the instrument behavior during calibration. No terms evaluating long term behavior are included.

The test results on this Certificate refer to the moment and conditions when the measurements took place. HE Instruments LLC takes no responsibility on the eventual damages that might occur by the misuse of this Certificate.

This Certificate is not to be duplicated, partially or as a whole, without prior written approval of HE Instruments LLC signed by its manager.

HE Instruments LLC measurement standards are traceable to NIST (National Institute of Standards and Technology), signatory of the CIPM Mutual Recognition Arrangement.

Certified By

On this Date

SIGNATURE

DEC 23, 2017

