



1. Product Specification BWIII PSG

BWIII PSG Amplifier Module



BWIII PSG Head Box

Channels					
#	Channel Name	#	Channel Name	#	Channel Name
1	LOC	14	T1 (EEG System 10-20)	27	Pleth Wave (Oximeter)
2	ROC	15	F3 (EEG System 10-20)	28	PRESSURE Transducer AMP
3	FLOW	16	F4 (EEG System 10-20)	29	PRESSURE Transducer Head box
4	SNORE	17	T2 (EEG System 10-20)	30	DC Channel - 1
5	CHIN EMG	18	M1 (EEG System 10-20)	31	DC Channel - 2
6	ECG / EKG	19	C3 (EEG System 10-20)	32	DC Channel - 3
7	THORAX	20	CZ (EEG System 10-20)	33	DC Channel - 4
8	POSITION	21	C4 (EEG System 10-20)	34	DC Channel - 5
9	ABDOMEN	22	M2 (EEG System 10-20)	35	DC Channel - 6
10	LEG EMG L	23	O1 (EEG System 10-20)	36	DC Channel - 7
11	LEG EMG R	24	O2 (EEG System 10-20)	37	DC Channel - 8
12	Auxiliary Bipolar	25	BPM (Oximeter)	37-38	Expansion up to 16 DC
13	Auxiliary Bipolar	26	SpO2 (Oximeter)		

2. System Specifications BWIII

2.1 Product Specification BWIII

Low Frequency Filter	Adjustable by software on-line and off-line: 0.01 to 100Hz
High Frequency Filter	
Notch Filter	50 or 60 Hz
Sensitivity Range	1 μ V/mm - 500 μ V/mm
Software	BWAnalysis - Windows® 7, 8 or 10
Length	5.7in - 14,48cm
Width	10.7in - 27,18cm
Height	2.2in - 5,59 cm

2.2 Analog/Digital Converter Characteristics

Characteristics	Values
Resolution	16 bits
Conversion time	15 μ s
Data flux:	Microprocessor
Sample rate	Up to 2048 Hz
Storage Rate	Up to 512 Hz
Deblock	YES

2.3 Amplifier Input Characteristics

Characteristics	Values
Frequency response	0,01 to 100Hz
AC channels Input Range	2 mVpp
DC channels Input Range	-5Vdc - +5Vdc
AC Channels connector type	Touch Proof 1.5mm
DC Channels connector type	P2 - 3.5mm
Transducer pressure connector type	Luer Lock
Signal Noise	< 1 μ V RMS.
Input Impedance	> 100 M Ω
Calibration Signal	0,5Hz, 50 μ V Square Wave
CMRR	> 80 DB

2.4 Power Supply Characteristics

Characteristics	Values
Input Voltage (AC)	100VAC o 240VAC +/- 10%
Frequency	45 - 75 Hz
Consumption	0,23 A @ 120 VAC 0,16 A @ 230 VAC
Output Voltage (DC)	+5VDC
Ripple Vpp Max	50mV
Certification	Approved by CSA, EN, IEC Standards
Isolation	Double and reinforced (IEC 60601-1, BF type)
Classification	Clase II