

Technical Data

Number of Channels

2 EMG/NCS/EP Bipolar Channels

- 4 Type DIN 1.5mm Safety Proof
- 2 Type DIN 6pin/270° Tuchel
- 2 Type DIN 1.5mm Safety Proof GND Ch

2 Channels for Electrical Stimulator

- 1 Bipolar Input Type DIN 1.5mm Safety Proof
- 1 DIN 7pin/360° Tuchel for Hand-Held Stimulator
- 2 Bipolar Dedicated Ones

1 Socket for Acoustic Stimulator

1 Socket for Visual Stimulator

1 Additional Trigger IN/OUT

Analog Amplifier

Noise: <0.3 μ Vrms

CMRR: >100 dB

IMRR: >130 dB

Input Impedance: >10000 M Ω // 8 pF

Input Dynamics: 250 mVpp

Bandwidth: from 0.1 to 20 KHz



A/D Conversion

1 A/D converter for each channel 24 bits Σ/Δ

Amplitude Resolution: 1/64 μ V/bit

Sampling: 32768 Hz x 128 Fs oversampling = 4.194,304 KHz

High-Pass Filter: 0.1-500 Hz

Low-Pass Filter: 20-20k Hz

Notch filter: OFF/50Hz/60Hz

Max DC Offset (AC mode): \pm 500 mV

Continuous raw data storage

Trigger

Free-run, auto-trigger (with amplitude threshold), internal, external

High/low active selectable TTL signal, in input on the "Trigger IN" port and in output on the "Trigger OUT" port

Current Stimulator

2 independent stimulation sites controlled by software/hardware and remotely

Current: 0-100 mA (resolution 0.1 mA)

Frequency: 0.1-100 Hz, on burst up to 500 Hz

Duration: 50-1000 μ s (resolution 50 μ s)

Acoustic Stimulator

External (TDH-39) and Internal Headphones

Customizable Tone/Click

Compression/Rarefaction/Alternate

Visual Stimulator

LED Goggles (Left/Right/Both)

LED Flash

LCD Pattern Reversal (Customizable)

PC interface

Ethernet - TCP/IP connection

Classification

Class I - Type BF (EN60601-1)

Class IIB (directive MDD 93/42/EEC on medical device)

Safety marks

CE mark (93/42/EDC)

FDA Cleared

Standards and Directives applied

EN 60601-1, EN 60601-1-1, EN 60601-1-2, EN 60601-1-4, EN 60601-2-40, EN ISO 14971

Power supply

External 15 V AC/DC adapter (IEC 601-1 Class I Type B)

Mechanical

Dimensions: 35 x 125 x 170 mm

Weight: 450 g

Environmental

Temperature: from +5°C to +40°C

Relative humidity: from 30% to 75% RH

Atmospheric pressure: from 700hPA to 1060hPA

Storage humidity: max. 95% RH