


SANDMAN[®] SD32+[™]

Digital Amplifier



The SD32+ digital amplifier features a convenient LCD screen for bedside montage setup, impedance check, signal quality check and built-in Nellcor[™] Oximax[™] oximetry for simplified calibration and trusted results. This robust digital amplifier also offers a slim, lightweight headbox with quick disconnect for ease of patient mobility, and delivers input and sampling performance required by AASM guidelines. References, filters, and sampling rates are fully programmable with live multi-referencing and re-referencing of any channel from Sandman[®] Elite[™] PSG software, making the SD32+ Digital Amplifier with Sandman Elite PSG software an ideal choice for sleep facilities large and small.

- > Live multireferencing and re-referencing of any channel from Sandman Elite software
- > Flexibility to meet sleep and neurodiagnostic recording needs
- > One year hardware warranty

VERSATILE AND CONVENIENT DESIGN

- Digital conversion immediately after signal is received from electrode and/or sensor
- Software high/low frequency filters are fully customizable
- Programmable calibration and electrode impedance check for all channels
- Signal amplification—20 levels for DC channels, 9 levels for AC channels
- True 16-bit resolution
- Sampling rates selectable up to 8,192 Hz
- Optically isolated for patient protection
- Common mode rejection ratio >100 dB
- DC offset ±300 mV/Leakage <100 µA

LCD GRAPHICS SCREEN

- 4 convenient and easy to use functions can be performed at the patient's bedside from the amplifier: impedance check, signal quality check, montage review, numeric display of DC channels

POWER

- Isolated medical grade AC/DC adapter (Class I, Type B) providing 15V DC

HEADBOX

- Compatible with standard 1.5 mm electrodes, sensors and inputs
- Connects to amplifier via docking station or 6' cable
- Convenient strap for easy patient mobility

CHANNELS

- 40 Inputs (including up to 16 DC)
 - 32 monopolar AC inputs (8 DC optional)
 - 8 bipolar AC inputs (DC optional)
 - 1 temperature channel
 - 1 calibration output channel
- SpO₂, Pulse Rate



SANDMAN ELINK ADAPTER

- Plug-and-play, state-of-the-art ethernet interface
- Plenum cabling to control room, 100'–250' (30–76 meters)

PULSE OXIMETRY

- Built-in Nellcor oximetry for simplified calibration
- Provides both SpO₂ and pulse rate channels
- 2–3 second averaging for sleep labs

DC EXPANSION BOX (OPTIONAL)

- 8 DC inputs with a full range of ±5 V
- Connect any external DC device such as: pH, CPAP, bilevel, etCO₂

SAFETY STANDARDS

- > Meets requirements EN IEC 60601-1
- > Complies with CSA and UL544
- > Classified according to MDD 93/42/EEC

PHYSICAL CHARACTERISTICS: AMPLIFIER

Size (L x W x H)	Weight
264 x 179 x 62 mm	1.36 kg
10.4" x 7.0" x 2.4"	3.0 lb

PHYSICAL CHARACTERISTICS: HEADBOX

Size (L x W x H)	Weight
128 x 97 x 25 mm	0.2 kg
5.0" x 3.8" x 1.0"	< 0.5 lb

THE EMBLA® SENSOR ADVANTAGE

- Complete line of sensors and supplies available 24/7 at www.shopembla.com
- Unparalleled accuracy with Embla Universal XactTrace respiratory effort belts
- Optimal sensor cable lengths available

Caution: U.S. Federal law restricts this device to sale by, or on the order of, a physician. The Embla quality system is certified in accordance with ISO 9001, ISO 13485:2003 and the Canadian CMDCAS, and fulfills the requirements of the European Directive and the U.S. Quality System Regulations for medical devices. Embla, Embletta, Sandman, and REMbrandt are registered trademarks of Embla Systems, Inc. RemLogic, Enterprise, titanium, N7000, S4500, SD20, SD32+, XactTrace, XFlow, and XSum are trademarks of Embla Systems, Inc.

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