
Embla® S4500

*Durable, Reliable, and
Easy-to-Use PSG Amplifier*



The Embla S4500 PSG amplifier has been specifically designed to meet AASM accreditation requirements and features a simplified design that includes a color-coded input panel with patient layout. This streamlined dual component system minimizes cabling and increases study reliability.


embla®
CLOSER TO OUR CUSTOMERS™

Embla S4500

Easy to use polysomnography system

Reliable and Durable

- Instantaneous digitization for highest quality signals
- Designed to reject signal interference
- Records up to 32 channels
- Software provides additional derived tracings
- Streamlined dual component design
- Minimized cabling increases patient comfort
- Integrated steel luer lock pressure transducer

Intuitive Design

- Color-coded input panel featuring patient layout
- Supports and accelerates the training process
- Built-in impedance button with indicator lights
- One step disconnect simplifies unhooking the patient for the technician
- 2-pin sensor inputs reduce hookup time and ensure polarity

Embla's Powerful and Flexible AASM Compliant PSG Software Features:

- Time-saving scoring and editing features
- Simplified design to accommodate common tasks and natural workflow
- Ability to re-reference channels during and after acquisition
- Selectable sampling rates
- Additional derived signals like flow, lung volume and RMI from XactTrace belts featuring built-in AASM recommended RIP technology

The Embla Sensor Advantage

- Complete line of sensors and supplies
- Inductive XactTrace unmatched effort trace accuracy
- XFlow™ complementary flow signal for studies without airflow sensors or as a reliable backup
- Superior nasal pressure, flow and snore signals
- Optimized sensor cable lengths

Embla S4500 Specifications

Channels

8 x EEG	1 x Snore
2 x EOG	1 x Body Position
3 x EMG	2 x Respiratory Effort
1 x EKG	1 x Pressure Transducer
2 x General Purpose	1 x Oximeter
1 x Thermistor	8 x Isolated DC Channels

Derived Tracings

Flow (Nasal Cannula)	Heart Rate (EKG)
Snore (Nasal Cannula)	XFlow*
Flow Limitation / Flattening (Nasal Cannula)	XSum*
R-R Intervals (EKG)	Tidal Volume*
SpO ₂ Average	Phase*
SpO ₂ Beat-to-Beat	Respiratory Rate*
Pulse Rate	RMI*
Pulse Waveform	* XactTrace Belts

Sampling Rates

- S4500 samples up to 500Hz
- Software allows user to select sampling rates by channel type.

Communication Unit Specifications

- Standard RJ45 Ethernet connection with Category 5 cable
- Supports adult and pediatric studies
- 8 isolated auxiliary DC channels for external devices such as ETCO₂, pH, etc.

Caution: U.S. Federal law restricts this device to sale by, or on the order of, a physician.

Embla's 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.

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