SONATA

Technical Data

Available Channels

- 6x EEG (standard), up to 10x EEG available
- 2x EOG
- 3x EMG Chin
- 6x ECG
- 2x EMG Leg
- 4x ExG (configurable)
- 2x Actograph
- Position of body (5 positions)
- Light

- Respiratory flow: nasal cannula and/or thermistor
- Therapy pressure
- 2x Thorax (pressure pads and/or RIP)
- 2x Abdomen (pressure pads and/or RIP)
- 2x Snore (standard nasal cannula and/or microphone)
- SpO2, pulse, plethysmograph, PTT
- Breathing and heart rate calculation
- Systolic blood pressure trend
- Calculation of phase angle change thorax/abdomen (paradoxical breathing)

External Signals

- DPC (Digital Prisma Control) Digital feed from 13 channels in prismaLINE devices and status changes
- Analog signal feed from up to 8 (eight) channels, e.g., tcCO2

General Information

Dimensions:	30 mm x 77 mm x 135 mm (H x W x D)
Weight:	230 grams, including rechargeable battery
Storage medium:	Internal storage
Error message:	LED on top of device
Power supply:	Rechargeable lithium-ion battery with integrated charger
Data transfer:	USB interface with cable or WiFi interface
Sampling rate:	1 Hz to 1000 Hz with 24-bit resolution
Length of recording:	Up to 24 hours (depending on recording configuration)
Maintenance and Service:	no maintenance or service required
Software:	Sleep Xpert Lab and Sleep Xpert App
Audio/Video:	High-quality network camera with pan-tilt-zoom technology and integrated intercom

Our Service for You

- No software re-licensing
- Free software updates for life of device
- Telephone and online support
- Devices in stock at our Bad Ems/Germany headquarters; delivery ex works on next day as a rule

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Stand: 01/2020

p10368en2001

Polysomnography System

SONATA

Modern. Versatile. Sustainable.

HOSPITAL   HOMECARE   DIAGNOSTICS

Sonata

MODERN. VERSATILE. SUSTAINABLE.

We cannot know exactly what the future will bring. With Sonata, however, you will be ideally prepared in the field of polysomnography. Your wishes are the requirements for Sonata and the motivating force for us.

Sonata is an attractive, modern polysomnography system which complies to AASM criteria with full flexibility and a broad range of features at the highest technical standard.

No matter which examination model you use for your patients, you'll find that Sonata offers highly varied solutions for different areas of application. You are ensured greater patient comfort, reliable findings and effective operation of hardware and software.

Features

- 65 channels
- Modern, attractive design
- Flexibility in application, sensors and use
- Integrated WiFi
- Possible to switch between WiFi and cable during a recording without interruption
- Integrated differential pressure measurement
- Standardized sensor connections
- Display of battery status on front panel
- Scanning rate up to 1kHz and 24-bit resolution
- 4x ExG single ended or 2x ExG differentiated (configurable)
- Optional use of two (2) actographs
- Respiratory effort detected by pressure pad and/or induction technology

- Configurable report
- Clear labeling of sensor connections to ensure confusion-proof application
- Suitable for recordings made of children
- Removable rechargeable battery
- Integrated light sensor
- Possible use of disposable induction effort belt
- Tablet function, optional
- Continuous impedance measurement
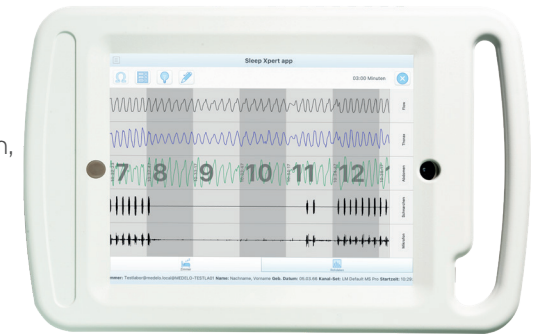- Systolic blood pressure trend

DPC – Digital Prisma Control

While in operation, the prismaLINE therapy devices from Löwenstein Medical record and calculate several therapy parameters, including airflow, pressure, mask leakage and tidal and respiratory minute volumes.
To ensure you the best titration for your patients, DPC transmits these parameters digitally and synchronously in an online recording with Sonata. Other status changes such as pressure changes are stored as comments in the Sonata recording.

Sleep Xpert App

The Sleep Xpert App allows you to conduct all important processes for an online PSG (e.g., impedance measurement, bio-signal calibration, signal monitoring and entry of comments) directly at the patient's bedside. The specific patient room can be selected and managed in the app on a mobile device such as a tablet.

Audio/Video Integration

Two high-quality network cameras are available for nighttime monitoring of your patients. Both are equipped with an infrared lamp and an intercom function.

Pan-Tilt-Zoom Camera
- Video: 30x optical zoom with automatic focus, silent, smooth panning, tilting and zooming. Resolution: 1280 × 720 HDTV. Video streaming in H.264. Automatic Day/Night switch.
- Audio: XLR Mono port with integrated phantom storage for microphone.

Compact Camera
- Fixed focal length with 110° horizontal and 61° vertical field of vision. Setup of different fields of vision possible. Integrated infrared lighting, microphone and speaker. Resolution: 1920 × 1080 HDTV. Video streaming in H.264. Automatic Day/Night switch.