



Azeer Sleep Diagnostic Devices



Scala

Polygraphy Device



Scala – High Performance!

Scala is primarily a standard polygraphy device for the detection of Sleep-Disordered Breathing that fulfills the requirements of the German EBM code for billable medical services. Furthermore, within the standard delivery Scala offers many possible uses at no extra cost for treatment of different user groups – all in one device. Given its variety of options, Scala is highly suited for use in a variety of fields, including pneumology, cardiology, ENT, sleep medicine and neurology.

The following features distinguish Scala from the rest:

Thermistor – In addition to a nasal cannula, a thermistor can be used to measure the patient's respiratory flow.

Snore microphone – A sensor to record snoring sounds can be applied to the larynx. It is possible to detect snoring at the same time by means of the dynamic pressure signal from the nasal cannula.

Differential pressure measurement – The integrated differential pressure measurement to manage PAP and NIV therapies offers very high-quality recording of the flow signal at high and quickly changing pressures.

Configurable electrode ports – The device is equipped with four electrode connection ports which can be freely configured and used for different electrophysiological tracings such as EMG, ECG or EEG.

Recording of respiratory movements – In addition to pressure pad technology, it is possible to record respiratory movements with induction belts (RIP) simultaneously or alternatively.

Removable Battery – The removable battery allows a quick hand-off of the device to the next patient without having to check the charging times.

Online and Offline – It is possible to carry out an online measurement instead of the standard offline measurement. An optional WLAN variant of Scala is available for data transmission from the patient recorder to a computer. The device can be operated with or without cables. A time-synchronized recording of video and audio signals can be conducted, as can a time-synchronized feed of external analog signals from therapy devices or transcutaneous CO2 monitor.

No maintenance or service required – The device requires no maintenance or service. However, Löwenstein Medical offers a regularly scheduled check of devices in order to ensure uninterrupted and trouble-free operations in daily use.

Device Description
Scala (standard delivery)

Article Nr.
1930041



Accessories

Nasal Cannula

Nasal cannula 200-0312/10
50 cm, LuerLock

Nasal cannula 500003
60 cm, LuerLock, small, oral pressure transducer

Nasal / Oral cannula 200-0312/15
60 cm, LuerLock, large, oral pressure transducer

Sets

Thermistor Set 1930320

Rechargeable battery Set 1930180

Snore microphone Set 1930321

LEG Set 1930410

ECG Set 1930408

EEG Set 1930018

Patient bag 930253

Scala mount 930250

Rechargeable battery Scala 930180

Rechargeable battery cover for Scala 930142

Charging tray for Scala rechargeable battery 930204

Charger for Scala 930209

Effort

Effort sensor short, adult 930393

Effort sensor long, adult 930394

Effort belt

Size S (98 cm), blue 930260

Size M (122 cm), black 930261

Size L (142 cm), red 930262

USB connection cable, 1.8 m 930224

Pressure Diff Adapter Scala 930322

Set of double tubes WM 96503

for Pressure Diff Adapter; 50 cm

Flexible tube adapter WM 95263

for Pressure Diff Adapter

SpO2 Softclip finger sensor 930300

Hook-and-loop armband 200-0311

Transport case 927304

Scala cleaning set 930376

Technical Data

Dimensions W x H x D in mm	135 mm x 30 mm x 77 mm
Weight	230 g, including rechargeable battery
Storage medium	Internal storage
Error indicator	LED on top of device
Power supply	Rechargeable Li-Ion battery with integrated charging electronics
Data transmission	USB interface with cable for data transmission
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 updates	Free software updates for our analysis software for the life of device
Software license	No software license required

CE 0483



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