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.

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Device Description	Article Nr.
Scala (standard delivery)	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,	930393
adult	
Effort sensor long,	930394
adult	
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

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