

Sleep Apnea Therapy

Therapeutic solutions for any case.

prisma

Sleep therapy solutions from Löwenstein Medical.

Diagnoses of sleep disordered breathing (SDB) are increasingly being made by doctors in many different medical fields. The consequences from SDB span the range from daytime sleepiness with decreased productivity, high blood pressure and heart attack to stroke.

For several decades we have been developing reliable, specialized technologies for sleep medicine. Our focus is on patient safety, treatment success and operating convenience.

The result is device and service solutions that provide the patient with highly effective treatment. Thanks to their intuitive use, product compatibility and low maintenance, you simplify work processes, leaving more time to concentrate on the patient.



TIPP

Our White Paper Edition for experts offers detailed information based on current studies:

- Sleep Quality in CPAP/APAP Therapy. The link between compliance, leakage, AHI and therapeutic success.
- Central Respiratory Events during CPAP/APAP Therapy. Challenges and therapeutic solutions.
- Patient self-management in PAP therapy. Options with mobile applications and the effect on therapy success.

You'll find our white paper as a PDF file available for download on our website.



Precise, reliable, and unbelievably silent.



All prisma therapy devices		• Complete telemedicine connection • Intelligent air conditioning with smartAQUAcontrol* (for use with prisma AQUA) • FOT / FBT for reliable differentiation of apnea types and recognition of apnea, hypopnea, flattening, snoring, RERAs and Cheyne-Stokes respiration	
prismaLAB		• Titration device with all modes and features of prisma therapy devices	
prismaCR	AcSV, CPAP	• Dynamic, anticyclic intra-breath regulation • Automatic pressure adjustment • Automatic or fixed backup rate	prisma20C / 20A / 25S / 25ST / 30ST / CR / LAB
prisma30ST*	aPCV, (prisma30ST-HFT), S, S/T, T, autoS, autoS/T, APAP, CPAP	• With respiratory stability indicator • Target volume can be set from 300 to 2000 ml • Intelligent BiLevel pressure profile	
prisma25ST	S, S/T, T, autoS, autoS/T, APAP, CPAP	• With respiratory stability indicator • Intelligent BiLevel pressure profile • Automatic or fixed backup rate	
prisma25S	S, autoS, APAP, CPAP	• With respiratory stability indicator • Intelligent BiLevel pressure profile • Automatic PDIFF functionality	prisma SMART / SOFT plus prisma SMART / SOFT max
prisma20A prisma SMART max prisma SMART plus prisma SMART	APAP, CPAP	• With deep sleep indicator • Two dynamic options in APAP mode • Integrated Bluetooth connection to prisma APP (plus) and additional integrated modem with connection to prisma CLOUD (max)	
prisma20C prisma SOFT max prisma SOFT plus prisma SOFT	CPAP	• With deep sleep indicator • Integrated Bluetooth connection to prisma APP (plus) and additional integrated modem with connection to prisma CLOUD (max)	prisma SMART / SOFT

* not available in all markets

prisma – Special features. Your benefits.



Effortless, consistent application throughout the entire prisma series

The combination of a large screen (touch, LED) and smart menu navigation ensures intuitive and quick use – the ideal support for every facet of your varied work processes.



Integrated. Efficient. Better care.

The digital integration with the system solution opens up new possibilities in care. Therapy data is securely transferred to the prisma CLOUD, easily accessible via the app, and enables rapid analysis by medical professionals from any location. This ensures greater transparency, closer monitoring, and optimized therapy decisions.



Pressure reaction fits patient's needs

Patients react with varying sensitivity to pressure adjustments. For effective therapy and breathing comfort, two options for pressure adjustments are available in APAP mode:

- Dynamic pressure adjustment for maximum normalization of inspiratory curve
- Standard pressure adjustment with equal reliability in cases in serious events such as apnea and hypopnea and gentler pressure reaction for mild events, aimed at encouraging patient acceptance.

Additional mechanism prevents unnecessary pressure increases in response to central events with closed upper airways.

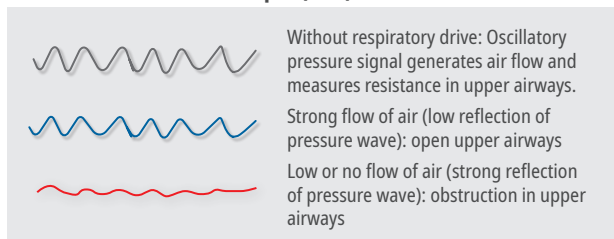




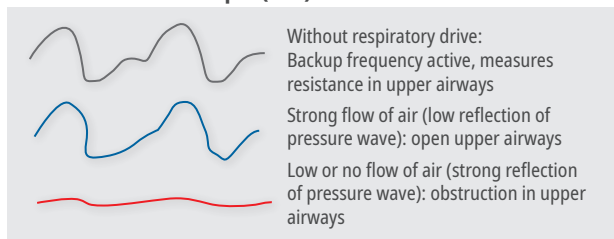
Precise event recognition

With the help of “Forced Oscillation Technique” (FOT) in modes without back-up frequency or with “Forced Breath Technology” (FBT) in modes with backup frequency, reliably precise differentiation is made between central and obstructive apnea. Hypopnea too is reliably differentiated and detected, as are other events such as Cheyne-Stokes respiration, flow limitations, snoring and RERA.

Forced Oscillation Technique (FOT)



Forced Breath Technique (FBT)



Deep sleep and respiratory stability indicators, thanks to prisma RECOVER

During therapy, prisma RECOVER continuously analyzes the patient's breathing pattern and recognizes the phases of stable respiration that indicate deep sleep, a particularly restorative sleep phase. In BiLevel modes too the phases of highly stable respiration are detected and reported. For the first time ever, this function can assess therapy success with regard to sleep quality in prismaTS or tele-monitoring with prisma CLOUD.



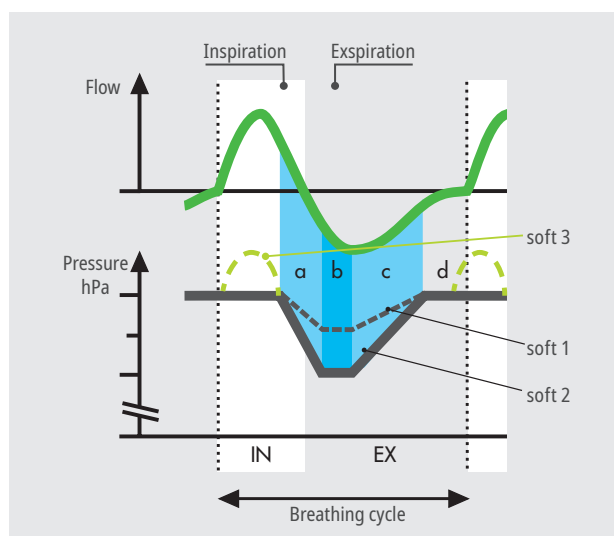
Comfortable sleep onset – comfortable waking: softSTART and softSTOP**

To make it easy for the patient to fall asleep, activate softSTART, which provides a slower pressure increase over a pre-set time until therapy pressure is reached. With a slow pressure reduction, softSTOP makes sure that the end of treatment is comfortable too.**



Pressure relief softPAP

During treatment the pressure in CPAP and APAP modes is decreased at the start of expiration and then increased again to therapy pressure at the start of inspiration to make exhalation easier and effectively prevent events. In softPAP Level 3 too inspiration is supported with a slight pressure increase – especially at lower pressures*** – to give the patient more comfort.



Maximum flexibility in BiLevel modes

- **Additional pressure relief (Bi sof1 / Bi soft2)**
In addition to the familiar BiLevel mode and an adjustable EPAP, two optional pressure relief settings with varied pressure reductions in early expiration phases can be activated to increase the patient's breathing comfort.
- **Additional automatic regulating pressure difference (autoPDIFF)**
Dynamic IPAP adjustments to hold open the upper airways during inspiration and a slighter EPAP adjustment during expiration effectively prevent partial obstructions. Available in the modes autoS and autoS/T.
- **(auto)TriLevel: Safety and breathing comfort**
(auto)TriLevel, unlike BiLevel, offers the same ventilator breath at a lower pressure level to give patients more breathing comfort.

** softSTOP available in prisma30ST (not available in all markets)

*** only in prisma LINE and prismaLAB



**Digital products.
Simple. Flexible. Reliable.**

prisma CLOUD



The telemedicine solution for you and your patients.

With prisma CLOUD you can monitor your patients' therapy reliably and simply. You'll have access to up-to-date information about treatment fully automatically from anywhere.

prisma APP



Treats. Informs. Motivates.

The prisma APP is the digital assistant for patients in optimizing their therapy. Comprehensive therapy information supports a more active engagement with treatment. The prisma APP is available for iOS and Android.

prismaTS and prismaTSlab



The accompanying software solution for experts.

From a quick check to detailed therapy analysis, prisma TS and prisma TSlab offer an ideal overview of all relevant data for every work step.

**Therapy software complete with
USB data cable, WM 93335**



Connective APAP therapy.

Flexible. Safe. Reliable.

The prisma SMART, available in the max and plus versions, enables intelligent integration of sleep diagnostics and sleep apnea therapy. It has a direct wireless connection to our Samoa polygraphy system via Bluetooth®.

prisma SMART / SOFT und prismaLINE Accessories



prismaAQUA
Humidifier
black WM 29680
white WM 29490



prismaCONNECT
Connection module
WM 29670



prisma CHECK
SpO₂ measurement
WM 29390 + connection cable WM 35581
Softtip sensors
S: WM 35532, M: WM 35533, L: WM 35534



prisma HUB
Connection module SOFT/SMART
WM 31660



4G Modem for prisma CLOUD
EU1 Version WM 31831
JN1 Version WM 31832
NA1 Version WM 31833



prismaPSG
PSG module
WM 29690



Breathing tube
Ø 15 mm, WM 29988
Ø 19 mm, WM 24445



prismaHYBERNITE
Heated breathing tube
for prismaLINE (WM100TD)
Ø 15 mm, WM 29083
Ø 19 mm, WM 29067



HYBERNITE Superday
Heated breathing tube
with external power supply
for prisma SMART / SOFT
WM 29045



Bacteria filter¹
WM 24476

Set
12 Pollen filters
WM 29652



prismaBAG basic
WM 29708



prismaBAG premium
WM 29709

Power inverter
24 V, Truck, WM 24617
12 V, Auto, WM 24616

DC Adapter
12/24 V, WM 24469
for prisma SMART / SOFT

¹ Only for prismaLINE for titration or clinical use.

LÖWENSTEIN medical

Sales + Service

Löwenstein Medical
Arzbacher Straße 80
56130 Bad Ems, Germany
T. +49 2603 9600-0
F. +49 2603 9600-50
info@loewensteinmedical.com
loewensteinmedical.com



Löwenstein Medical Technology
Kronsaalsweg 40
22525 Hamburg, Germany
T. +49 40 54702-0
F. +49 40 54702-461
info@loewensteinmedical.com



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