





#### MADE IN FRANCE

PORTABLE Respiratory Polygraph

www.cidelec.net



PORTABLE

## STANDALONE

**SLEEP** 

## / HOW IT WORKS



#### CID-LXa

- Installed on the patient,
- Measures electrophysiological signals,
- **Use** in advanced polygraph

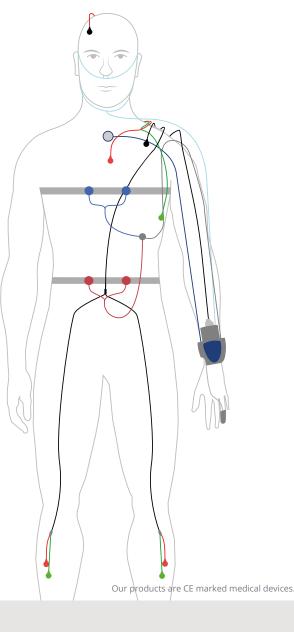
- CIDELEC software - Automatic analysis of the signals,
  - **Review** of the traces,
  - Archiving of data,

SIMPLE

- Customisable **summaries** 

# CLICK 'N CID





## / WE OFFER



#### CIDELEC provides:

- Training and installation of products on site by our team,
- Innovative technology of our systems to obtain precise and reliable measurements
- Analysis and processing of information with the creation of personalised reports,
- After-sales service, technical assistance and technical expertise

# • DEVICES DESIGNED & MADE IN <u>FRANCE</u>

## CIDELEC, 30 YEARS YOUR PARTNER

## / PERFORMANCE & QUALITIES

Our devices to aid the diagnosis of sleep-related or sleep-aggravated pathologies have been designed and manufactured in France for almost 30 years.

CIDELEC supports you throughout their use: presentation, sales, installation, user training, telephone assistance, after-sales service.

The CID-LXa, coupled with the HypnoLighT technology, differentiates between wakefulness/sleep phases using three electrodes (2 EEG/1 mass).

The CID-LXa-206d model also has a pressure channel for the connection of a pneumotachograph when the patient uses cPAP/BIPAP treatment.

#### Technical characteristics CID-LXa

Dimensions: 32 x 82 x 114 mm- Weight: 135 g- Battery: Li-Po 1700 mAh - 3.7V

CHANNELS	BANDWIDTH	SAMPLING FREQUENCY	STORAGE	PRECISION	POINTS	ELONGATION	OTHER
Breathing sound	200 - 2000 Hz	4000 Hz	Sound intensity to 16 Hz		256		Sensitivity 20 - 80 dB Adaptive threshold
Snoring	20 - 200 Hz	4000 Hz	Sound intensity to 16 Hz		256		Sensitivity 60 - 120 dB Threshold 76 dB
Suprasternal pressure	0.02 - 20 Hz	4000 Hz	8 Hz		4096	+/- 100 Pa	
Position		1 Hz	1 Hz				5 positions
Actimeter		1000 Hz	8 Hz				
Nasal flow	0 - 10 Hz	4000 Hz	256 Hz		65536	+/- 300 Pa	
Machine pressure	0 - 10 Hz	4000 Hz	256 Hz	+/- 25 Pa	4096	0 - 2 kPa	Up to 4 kPa on request
<b>SpO</b> <sub>2</sub> <sup>(1)</sup>			8 Hz	+/- 3% (between 70 and 100%) <sup>(2)</sup>	100	0 - 100%	Averaged over 4 pulse cycles
Pulse rate <sup>(1)</sup>			8 Hz	+/- 5 BPM (2)		40 - 240 BPM (2)	
Photoplethysmogram (1)			64 Hz				
Inductive straps	0.1 - 10 Hz		8 Hz		65536		
ECG channel	0.2 - 28 Hz programmable	500 Hz	128 Hz		65536	860 μV	Built-in 50 Hz noise tester
EMG channels	10 - 100 Hz	4000 Hz	64 Hz		256	20 µV	
EEG channels	0.2 - 35 Hz programmable	500 Hz	128 Hz		65536	860 μV	Built-in 50 Hz noise tester
Pneumotachograph (3)	0 - 10 Hz	4000 Hz	16 Hz	+/- 4%	4096	+/- 1 litre/s	

(1) NONIN manufacturer

(2) Under the least favourable conditions

(3) Only available on the CID-LXa-206d

#### Discover advanced respiratory polygraphy

# HypnoLighT

**HYPNOLIGHT :** ACCESS TO THE SLEEP/WAKEFULNESS STATUS IN POLYGRAPHY

## / PNEAVOX

PneaVoX technology is unique.

One sensor records 3 physiological parameters :

- Buccal and nasal breathing,

- **Respiratory effort** via suprasternal pressure to differentiate between obstructive, central and combined apneas,

- Snoring (energy, intensity).

Finally, the PneaVoX sound sensor **analyses upper airway resistance** by measuring the sound intensity.

"The **PneaVoX sound sensor**, to improve differentation between sleep disorders via the analysis of tracheal sounds."



### / SCIENTIFIC BIBLIOGRAPHY

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A. Amaddeo, M. Fernandez-Bolanos, J.O. Arroyo, S. Khirani, G. Baffet, B. Fauroux. *Validation of a Suprasternal Pressure Sensor for Sleep Apnea Classification in Children,* Journal of Clinical Sleep Medicine, Vol. 12, No. 12, 2016.

[...]

#### PURCHASE



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Read the product instructions carefully before use. Document modified on 07/2023