

Psychophysiological telemetric system "Rehacor-T" version "Mini"

European Quality Certificate
CE 538571,
issued by
British Standards Institution (BSI)

Reference guide on low-channel polysomnograph sales package selection

using illustrated catalogue for Psychophysiological telemetric system "Rehacor-T"

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Illustrated catalogue Rehacor-T system

SW Egoscop®
Video equipment kit with SW Encephalan-Video

ABP-4

SW Encephalan-PSG

SW Rehacor®
Multifunctional device with software and additional devices, included into the set

Quality management system is certified with ISO 9001:2008 and ISO 13485:2012 standards

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bsi ISO 9001 Quality Management
bsi ISO 13485 Medical Devices Quality Management
FM 538691 MD 540857



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Psychophysiological telemetric system “Rehacor-T” – is a multifunctional four-channel device applied for polysomnographic studies with “Encephalan-PSG” software as **cardiorespiratory polygraph** for sleep apnea screening.

During study **data is recorded** onto the memory card of the main transceiver-recorder ABP-4 **in the autonomous mode** (unattended) or into the PC's memory **in telemetric mode** (attended).

The study can be carried out in telemetry (attended) mode with the possibility of synchronized (with recorded data) **night PSG-video monitoring**.

Cardiorespiratory polygraph complies with Type III devices according to AASM and CMS classification – a device for autonomous (unattended) study with registration at least 4 parameters – the airflow, respiratory effort, ECG or pulse rate, oxygen saturation in blood. In addition, application registers the position of the body, snoring, perfusion index, the respiratory rate and limb movements.

Table 1. **Cardiorespiratory polygraph based on the Psychophysiological telemetric system “Rehacor-T”**

provides multichannel registration of various physiological parameters and signals with wireless modules, units and sensors (in required combinations, see Table 2):

Sensors, electrodes and accessories	Sensors configurations for parameters recording				Registered signals and parameters	Abbreviations
	Patient transceiver-recorder ABP-4	Wireless pulse oximeter module	Wireless respiration module	POLY-4 module		
	optional configuration	standard configuration	standard configuration	optional configuration		
Pulse oximeter sensor	–	√	–	–	Oxygen saturation	SpO2
					Photoplethysmogram	PPG
					Pulse rate	PR
					Perfusion index	PI
Pressure airflow sensor	–	√	–	–	Pressure airflow	P-Flow
					Snore (via cannula of P-flow sensor)	Snore (P-Flow)
					Airflow rate	Airflow
T-adapter	–	√	–	–	CPAP Pressure	CPAP
Accelerometer movement activity sensor (integrated)	–	√	–	–	Movements	Mvm (actigraphy)
					Body position	BodyPos
Wired limbs movement sensors (2 pcs.)	√	–	–	√	Motility	Mtl
Electromyographic sensors (2 pcs.)	√	–	–	√	EMG	EMG
Respiratory effort sensor (2 pcs.)	√	–	√	–	Respiratory effort thoracic	RespEff(thor)
					Respiratory effort abdominal	RespEff(abd)
Thermistor airflow sensor	√	–	√	–	Temperature airflow	T-Flow
Snore sensor from larynx	√	–	√	–	Snore	Snore
Electrocardiographic sensor (1 derivation)	√	–	–	–	Electrocardiogram	ECG
PG-ECG connector	–	–	–	√	Electrocardiogram (from three thoracic derivations)	ECG
					Impedance pneumogramm	IPG
N-electrode	√	–	–	√	For EMG and ECG recording (from two electrodes)	N

Table 2. **Typical sales packages of cardiorespiratory polygraph based on telemetric system "Rehacor-T" with software "Encephalan-PSG"**

Typical sales packages	Patient transceiver-recorder ABP-4	Wireless pulse oximeter module	Universal module Poly-4	Respiratory sensors module
	Presence in the sales package, used sensors, recorded parameters			
Basic variant – start level polygraph for cardiorespiratory monitoring and apnea screening.	Sensors at customer's option: ECG, RespEf (chest), RespEf (abdomen), T-Flow, snore.	SpO2, PPG, PR, PI, P-flow, snore (P-flow), Mvm (actigraphy), BodyPos.	-	-
Optimal variant – a polygraph for advanced cardiorespiratory monitoring and sleep apnea screening.	Sensors at customer's option: ECG, RespEf (chest), RespEf (abdomen), T-Flow, snore.	SpO2, PPG, PR, PI, P-flow, snore (P-flow), Mvm (actigraphy), BodyPos.	PG-ECG connector with 3 standard ECG chest derivations (7 electrodes) and 1 IPG.	-
			or Sensors: 2 EMG, 2 Mtl.	-
Professional variant – a polygraph for advanced cardiorespiratory monitoring with the possibility of simultaneous registration of limb movements in sleep.	Sensors: 2 EMG, 2 Mtl.	SpO2, PPG, PR, PI, P-flow, snore (P-flow), Mvm (actigraphy), BodyPos.	PG-ECG connector with 3 standard ECG chest derivations (7 electrodes) and 1 IPG derivation.	Sensors: RespEf (chest), RespEf (abdomen), P-flow, Snore.

Notes:

- Polygraphs can be supplemented with a video monitoring kit for the synchronized with PSG data studies of video (and audio) record of sleep process.
Video monitoring is carried out during the PSG studies in telemetric mode.
- During polysomnographic study, the registration of the therapy pressure in the mask of a CPAP/BiPAP/AutoPAP device is available to monitor the impact of CPAP/BiPAP/AutoPAP therapy on the quality of sleep. This option requires purchasing the T-adapter with a tube.
- The optional Poly-4 module can input signals of DC current (DC) for 4 galvanically isolated inputs in the mode of potential registration with an open input (no more than 2 POLY-4 modules at a time). Requires manufacturer approval of data input protocol (DC).
- There is an option of additional supplementation of the "Rehacor-T" system with sensors, accessories and software to be applied for a different medical purpose in daytime (for example, with required sensors and software for functional biocontrol with biofeedback "Rehacor" to train skills of relaxation and self-regulation to improve sleep quality in order to increase its economical efficiency (quotation and illustrated catalogue on request)).