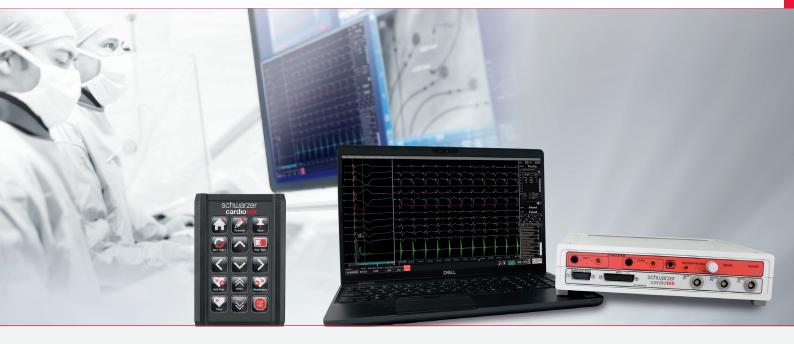
## **EP-TRACER® 2**

The portable electrophysiological measurement system to support Conduction System Pacing (CSP)-Procedures





## EP-TRACER 2 simplifies and improves CSP Procedures

The innovative electrophysiological measurement system is perfectly suited to support CSP implantations due to specific excellent features. With its fully-integrated stimulator it assists the programmer unit during pacing lead placement.

With the EP-TRACER 2 the morphology of the 12-channel surface ECG can be displayed simultaneously during stimulation. Due to its small and handy footprint, the EPT 2 can be easily hand carried to any place where the user may want to put it into operation.

## **EP-TRACER 2 Features**

#### **Amplifier**

The EP-TRACER 2 amplifier allows the connection of a 12-channel surface ECG and 2 additional His-channels. If necessary, invasive blood pressure can be displayed. All signals can be displayed simultaneously. The excellent preamplifier and the intelligent filters provide sharply defined His signals - a valuable guide for the placement of the electrode.

#### **Integrated Stimulator**

The EP-TRACER 2 is equipped with a built-in 2-channel stimulator. If needed, the stimulator can be used in parallel with the pacemaker or to the programmer.

#### Smart Keyboard

The Smart Keyboard offers an intuitive user interface to support a streamlined workflow, combining the benefits of a digital display with the haptic feedback of a traditional keyboard. Customized stimulation protocols can be accessed via the Smart Keyboard in a short time. Additionally annotations are supported by the Smart Keyboard.

## Software

 The EP-TRACER 2 software has an intuitive interface that supports your requirements at every stage of the procedure.

- Visible at one glance: 12 -channel surface ECG and His-signals are displayed simultaneously and clearly.
- The screen can be split in a comfortable way to overlay consecutive beats. It allows the comparison of the signal's morphologies.
- In trigger mode, the response signal can be superimposed after stimulation and reproduced again at each stroke. Time and amplitude measurements can be carried out, for example to determine and evaluate the effectiveness of stimulation pulse and place.
- The excellent, noiseless signal amplification allows a better visualization of His-signals at the crucial points of the procedure.
- The 12-channel surface ECG allows immediate control of the stimulation point, for example in the His-bundle (selective vs. non-selective capture).
- The optional measurement of invasive blood pressure (IBP) supports statements about the contractility of the left ventricle.

#### Further Advantages

Fast setup: the system is ready for use in 5 minutes.





### Components

- EP-TRACER 2
  - · Laptop (Windows 10 IoT, 64bit)
- Software EP-TRACER 2
  - · Recording software
  - Instruction manual
  - Dongle license key
- EP-amplifier
  - · 2 intracardiac channels
  - 12 surface ECG channels
  - 3 pressure channels
  - Integrated stimulator with 2 outputs
  - Allows custom stimulation via intracardiac channels without external wiring
  - · Input mode: bipolar or unipolar
- Smart Keyboard (optional)
- Power-box, 100-240 V
- Cabling
  - · ECG cable with electrodes

## Smart Keyboard (optional)



- 4.3 inch LCD display
- 15 transparent keys with full haptic feedback
- configurable key assignment\*

\*Note: editing of the digital layers may only be performed by Schwarzer Cardiotek personnel or an approved affiliate.

# **EP-TRACER® 2**

The portable electrophysiological measurement system to support Conduction System Pacing (CSP)-Procedures

#### **Technical details**

	Medical device directive (93/42/EEC):	Class IIb		
	EP-TRACER 2			
	Intracardiac channels Sampling rate Catheter connection	2 1 kHz per channel Input modes: bipolar and unipolar		
	12 ECG channels	Leads I, II, III, aVL, aVR, aVF V1-V6 Standard: DIN DB15 Calibration equivalent to 1 mV		
	Additional channels	3 AUX channels Connections: 3 × 9 pin REDEL Input mode: bipolar		
	Current leakage	< 50 μΑ		
	Back-up stimulation mode	60 beats per min at Out1-Out2 simultaneously; current = 8 mA (Out1), current = 4 mA (Out2), pulse width = 2 msec		
	Stimulator	Current 0 – 25.5mA (customizable) Minimum increment 0.1 mA Maximum output-voltage: 20 V		
	Analog/digital converter	Resolution: 12 bit (20 bit dynamic) Bit weight: 1.25 μV/ LSB		
	Computer operating system	Windows 10 IoT, 64bit		
1				

Applicable standards	EN 60601-1: 2006 + A1:2013	
	EN 60601-1-2: 2015	
	EN 60601-1-6: 2010	
	EN 60601-2-27: 2014	
	EN 00004 0 04 0044	

EN 60601-1-0. 2010 EN 60601-2-27: 2014 EN 60601-2-34: 2014 EN 62366: 2015 EN 62304: 2006

Patient safety Safety class I; type CF according to EN 60601-1;

Patient connections protected against the effects of

defibrillation impulses

Dimensions (h × w × t)

Portable system in an aluminium 150 × 460 × 370 mm suitcase

EP-TRACER 38 60 × 280 × 270 mm

Weight

Portable system in aluminium suitcase ca. 8 kg

EP-TRACER 38 ca. 2.2 kg

Labelling
only for EP-TRACER 38 medical device 

C € 0197

Notice: The EP-TRACER Portable version is sold as system pack while the main device, EP-TRACER, is a CE marked medical device of

Notice: The EP-TRACER Portable version is sold as system pack while the main device, EP-TRACER, is a CE marked medical device o Class IIB.

Content may be subject to change

