

EP-TRACER® 2 ProCart

The electrophysiological measurement system with a fully-integrated stimulator

**schwarzer
cardiotek**
SMART. PRECISE. RELIABLE.



The EP-TRACER 2* with its fully-integrated stimulator can be used for clinical EP studies. The EP-TRACER 2 ProCart offers an ideal platform for EP procedures in EP or hybrid laboratories.

Due to its compact design, the ProCart in particular can be rapidly moved between laboratories as required. The system consists of a fully functional EP system, including two high resolution monitors - one that displays real-time signals while the second can be used for playback and analysis.

* EP-TRACER with software version 2



Features of the EP-TRACER 2 ProCart

Amplifier

EP-TRACER 2 amplifiers offer the connection of either 20, 52 or 84 intracardiac channels. All amplifier models allow connection of 12 surface ECG channels and 6 auxiliary channels which, for example, can be used for the measurement of invasive blood pressure.

Integrated Stimulator

The EP-TRACER 2 is equipped with a built-in 2-channel stimulator. The software allows stimulation on any intracardiac channel with the click of the mouse, without further external wiring or equipment. Stimulation protocols are easily customized and accessed, thus further streamlining the procedural workflow.

Software

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

Special display modes, such as triggered mode, pressure mode and multiple user-configurable split-screen modes provide the perfect framework to display data from multiple sources. For example, surface and intracardiac ECG signals, invasive blood pressure, as well as ablation data (RF- and cryo-ablators supported) can all be displayed within your customized layout.

One-touch commands to start/stop stimulation, decrement interval time, load a saved stimulation protocol, save events, add comments etc., allows for the seamless operation of the EP-TRACER within your preferred workflow.

All events are time-stamped and added to the user-customizable procedure log to facilitate reporting and later review from anywhere in the hospital network using our specialized review software.

Further Features

- Export tool for the export of calibrated trace values (in mV)
- One-click report generation: Customizable report templates allow for a maximum of reporting flexibility
- Well-visible presentation of annotations and measurements within a recording
- Automatic detection of connected abulators (RF- and cryo-ablators)
- The EP-TRACER can be combined with the most common PFA equipment on the market
- Icon-based operation: Pin-drop, Screenshot and AutoText features for rapid procedural annotation and streamlined reporting
- Measurement of invasive blood pressure (IBP) to better determine the catheter position during transseptal puncture
- New special filter for noise suppression when analyzing EP signals



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Components

- ProCart
 - Isolation transformer, approx. 1.600VA
 - PC system (Windows 10 IoT, 64bit)
 - 2 x 24" monitors
 - Laser printer
 - Smart Keyboard
- Software EP-TRACER 2
 - Recording software
 - Instruction manual
 - Review software
 - Dongle licence key
- EP-amplifier
 - 20, 52 or 84 intracardiac channels
 - 12 surface ECG channels
 - 6 auxiliary channels; e.g., for the invasive measurement of blood pressure
 - Integrated stimulator with 2 outputs
 - Allows custom stimulation via intracardiac channels without external wiring
 - Input mode: bipolar or unipolar
 - Isolated power supply
- Catheter connection boxes
- Power-box, 100-240 V
- Filter set with EP-TRACER 70 and 102
- Cabling
 - Cable for catheter connection box (around 3m)
 - ECG cable with electrodes
 - Carbon-fiber cable RTBG-3605, L = 90cm

Technical details

Medical device directive (93/42/EEC)	Class IIb
EP-TRACER 2	
Intracardiac channels	20/52/84
Sampling rate	1 kHz per channel
Catheter connection box	2/4/6 x DIN DB25, Input modes: bipolar and unipolar
ECG-Channels	Electrode connections: R, L, F, N, C1-C6 Standard: DIN DB15 Leads I, II, III, aVL, aVR, aVF C1-C6 Calibration equivalent to 1 mV
Additional channels	6 AUX channels Connections: 3 x 9 pin REDEL (2 channels per connection) Input mode: bipolar
Current leakage	< 50 µA
Back-up stimulation mode	60 beats per min at Out1-Out2 current = 8 mA (Out1), current = 4 mA (Out2), pulse width = 2 msec
Stimulator	Current 0.5 - 25.5mA (customizable) Minimum increment 0.1 mA
Analog/digital converter	Resolution: 12 bit (20 bit dynamic) Bit weight: 0.1 -2.5 µV/ LSB
Computer operating system	Windows 10 IoT, 64bit
Monitor Printer	2 x 24" high-resolution Laser
Applicable standards	EN 60601-1:2006 + A1:2013 EN 60601-2-27:2014 EN 60601-2-34:2014 EN ISO 14971:2019
Patient safety	Safety class I, type CF according to IEC 60601-1; Patient connections protected against the effects of defibrillation impulses
Dimensions (h x w x t)	ProCart (incl. monitors) 1650 x 850 x 650 mm EP-TRACER 2 38/70/102 60 x 280 x 270 mm / 110 x 290 x 260 mm / 110 x 290 x 260 mm
Weight	ProCart approx. 100 kg depending on the configuration EP-TRACER 2 38/70/102 approx. 2.2 kg / 3.3 kg / 3.8 kg Monitor approx. 10.6 kg
Labelling	only for EP-TRACER 2 medical device CE 0197

Notice: The EP-TRACER ProCart version is sold as a system pack while the main device, EP-TRACER, is a CE marked medical device of class IIb. Content may be subject to change.