

EP-TRACER Portable

The portable electrophysiological measurement system with a fully-integrated stimulator

The EP-TRACER with fully-integrated stimulator can be used for both clinical and experimental EP studies. A single device and a standard protocol allows investigations to be carried out in any laboratory.

The entire EP system is operated with a laptop which fits comfortably into a rolling suitcase, thus providing the first fully featured portable EP system in the world. The system can also be connected to a high resolution monitor and a laser printer to facilitate operation in a hospital environment.



Features of the EP-TRACER Portable

Amplifier

EP-TRACER amplifiers offer the connection of either 20, 52 or 84 intracardiac channels. The brilliant signal quality supports you throughout the EP procedures.

Integrated Stimulator

The EP-TRACER 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 software allows you to view, store and analyze both surface and intracardiac ECG signals. Special display modes, such as the triggered mode or divided screen mode, are designed for the optimal display of data from various examination types. The system offers the possibility of continuous data protection on a hard disk or data archiving on a DVD/CD. Analysis of the examination results can

be performed on any PC using the review software provided in the service package.

Hardware

The EP-TRACER Portable consists of a laptop and an amplifier for the connection of 12 surface ECG channels; 20, 52 or 84 intracardiac channels and 6 auxiliary channels which, for example, can be used during the invasive measurement of blood pressure. The simple cabling of the system reduces assembly time and allows for prompt instigation of the procedures.

The EP-TRACER Portable can be integrated with all three EP-TRACER models (38/70/102).

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Components

- EP-TRACER Portable
 - Laptop* (Windows 7, 32bit)
- Software EP-TRACER
 - Recording software
 - Instruction manual (on a CD)
 - Review software
- 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	
Intracardiac channels	20/52/84
Sampling rate	1 kHz per channel
Amplification factor	0.1 - 25
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 simultaneously; current = 8mA, pulse amplitude = 2msec
Stimulator	Current 0 - 25.5mA (customizable) Minimum increment 0.1 mA Maximum output-voltage: 20 V Safety stimulation: 60 beats/min Connections: 4 x 2mm banana plug
Analog/digital converter	Resolution: 12 bit (20 bit dynamisch) Bit weight: 12 µV/ LSB
Computer operating system	Windows 7, 32bit
Applicable standards	IEC 60601-1: 1988 + A1:1991 + A2:1995 IEC60601-1:2012 / IEC 60601-1-1: 2000 IEC 60601-1-2: 2001 + A1:2004 IEC 60601-1-4: 1996 + A1:1999 IEC 60601-1-6: 2006 IEC60601-1-6:2010 + A1:2013 IEC 60601-2-27:2005 / IEC60601-2-27:2011 IEC 60601-2-34: 2000 / IEC60601-2-34:2011 IEC 62366:2007 + A1:2014 / IEC 62304:2006
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)	
Portable system in an aluminium suitcase	150 x 460 x 370 mm
EP-TRACER 38/70/102	60 x 280 x 270 mm / 110 x 290 x 260 mm / 110 x 290 x 260 mm
Weight	
Portable system in aluminium suitcase **	ca. 10 kg
EP-TRACER 38/70/102	ca. 2.2 kg / 3.3 kg / 3.8 kg
Labelling	
only for EP-TRACER medical device	CE 0197

* Not part of the certified medical product

** Only EP-TRACER 38

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