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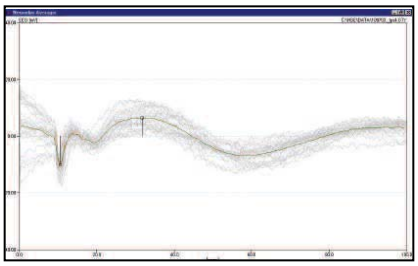
Find the *Harvard Apparatus / Hugo Sachs TAM-D* at our website: ***Click HERE***

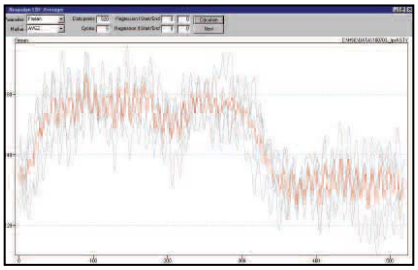
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NEW Somatosensory Stimulation (SEP and Cerebral Blood Flow)



The system has been setup to study the relationship between somatosensory stimulation, neuronal activity and vascular response.





System description

The complete system includes a specific hardware and a dedicated software package.

The hardware consists of:

- A ventilator
- A PLUGSYS maincase equipped with:
  - A software controlled stimulator module PSM and a stimulation electrode
  - A blood pressure transducer (ISOTEC) and the relevant amplifier (TAM-A)
  - An EEG amplifier (EEGA)
  - An interface module to connect the laser doppler flowmeter
- A laser doppler flowmeter with adapted flow probe

The hardware can optionally be extended for other measurements like ECG, temperature and venous pressure.

The software consists of:

- The NEURODYN data acquisition software
- The software module for somatosensory evoked potential (SEP) analysis and cerebral blood flow (CBF) averaging.

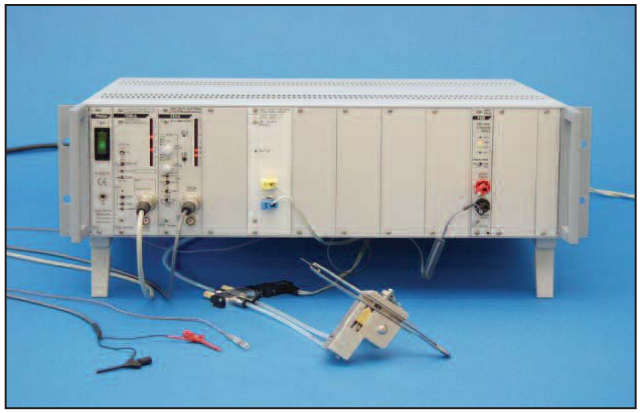
- Complete system for evaluating cerebral activity and vascular response to somatosensory stimulation
- Can be used as basic system for general EEG analysis
- Can be combined with system for cerebral autoregulation studies

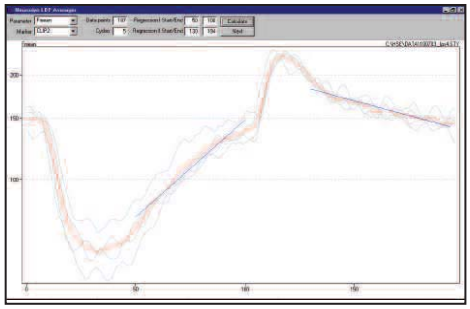
Catalog No.	$	Product
Ventilator		
BS4 40-1003		Starling's Miniature 'Ideal' Ventilator 10 ml, 230 VAC, 50 Hz
Alternative To BS4 40-1003		
BS4 40-1002		Starling's Miniature 'Ideal' Ventilator 10 ml, 115 VAC, 60 Hz
BS4 73-2833		Tracheal Cannula for Small Rat, OD 2.0 mm, L 25 mm, Includes Medium Y-Adapter OD 7.5 mm
Stereotaxic Frame		
BS4 72-4792		Lab Standard Stereotaxic Equipment for Rats (Dual Manipulator) Model 51603, with 18 Degree Ear Bars
Alternative To BS4 72-4792 If Laser-Doppler Flow Is Not Used		
BS4 72-4790		Lab Standard Stereotaxic Equipment for Rats (Single Manipulator), Model 51600, with 18 Degree Ear Bars
Basic System Case For The Multiple Amplifier Modules		
BS4 73-0045		PLUGSYS Basic System Case Type 603
BS4 73-0065		TAM-A PLUGSYS Transducer Amplifier Module Type 705/1
BS4 73-0089		Isotec Pressure Transducer, Range -50 to 300 mmHg
BS4 73-0098		Stand for ISOTEC
BS4 73-0096		Three-Way Stopcock Type 9560 R
BS4 73-0097		One-Way Stopcock Type 9500
To Connect Laser Doppler Flowmeter And Up To 3 Other Devices		
BS4 73-0222		EIM PLUGSYS External Input Module Type 673
Electrical Stimulation		
BS4 73-0221		PSM PLUGSYS Programmable Stimulator Module Type 676
BS4 73-0224		Software Module for PSM and PPG Control for Windows
BS4 73-0336		Plexiglass Platinum Electrode, D = 0.5 mm
For High Frequency EEG Measuring		
BS4 73-0153		BPA PLUGSYS Biopotential Amplifier Module Type 675
BS4 73-3005		EEG Cable with Clips for BPA or EEGA
Laser Doppler Flowmeter And Flowprobes		
BS4 73-0748		Laser Doppler Flowmeter BRL-100
BS4 73-1202		Needle Type Laser Doppler Flow Probe BN-0.5
Data Acquisition With Computer		
BS4 73-0161		HSE-HA Data Acquisition Hardware, PLUGSYS Version for Windows® NT/2000/XP
BS4 73-0223		DIM-D PLUGSYS Digital Bus Link for DIM Module Type 708/1
BS4 73-3004		HSE-HA NEURODYN Data Acquisition Software for Windows® NT/2000
BS4 73-3526		Software Option to NEURODYN for SEP Evaluation

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NEW Cerebral Autoregulation





- Complete system for evaluating cerebral autoregulation
- Can be used as basic system for general EEG analysis
- Can be combined with system for cerebral activity and vascular response to somatosensory stimulation

The system has been setup to study the cerebral autoregulation. A dedicated clamping system is used to occlude the carotid artery for a programmable period. The clamp is software controlled. The evaluation of the regional blood flow is synchronized to the clamping system. To allow reversible and repeated clamping without vascular damage a vessel clip of defined closing pressure of 0.25N is used.

System description

The complete system includes a specific hardware and a dedicated software package.

The hardware consists of:

- A ventilator
- A PLUGSYS maincase equipped with:
  - The clamping system
  - A blood pressure transducer (ISOTEC) and the relevant amplifier (TAM-A)
  - An EEG amplifier (EEGA)
  - An interface module to connect the laser doppler flowmeter
- A laser doppler flowmeter with adapted flow probe

The hardware can optionally be extended for other measurements such as ECG, temperature and venous pressure.

The software consists of:

- The NEURODYN Data Acquisition software
- The software module for cerebral autoregulation evaluation using clamping control and blood flow (CBF) averaging.

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BS4 73-0065		TAM-A PLUGSYS Transducer Amplifier Module Type 705/1
BS4 73-0089		ISOTEC Pressure Transducer, Range -50 to 300 mmHg
BS4 73-0098		Stand for ISOTEC
BS4 73-0096		Three-Way Stopcock Type 9560 R
BS4 73-0097		One-Way Stopcock Type 9500
To Connect Laser Doppler Flowmeter And Up To 3 Other Devices		
BS4 73-0222		EIM PLUGSYS External Input Module Type 673
Clamping System For Carotid Artery		
BS4 73-3528		Vessel Clamping System for Cerebral Autoregulation Evaluating
For High Frequency EEG Measuring		
BS4 73-0153		BPA PLUGSYS Biopotential Amplifier Module Type 675
BS4 73-3005		EEG Cable with Clips for BPA or EEGA
Laser Doppler Flowmeter And Flowprobes		
BS4 73-0748		Laser Doppler Flowmeter BRL-100
BS4 73-1202		Needle Type Laser Doppler Flow Probe BN-0.5
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BS4 73-3004		HSE-HA NEURODYN Data Acquisition Software for Windows® NT/2000
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