

**Neurology**  
Accessories



*Fighting Disease with Electronics*

 **NIHON KOHDEN**



**Always Perfectly Balanced:**  
Original accessories for optimal examination results

*Fighting Disease with Electronics*

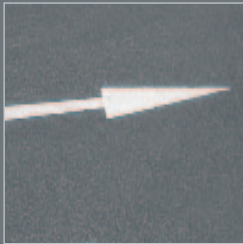
 **NIHON KOHDEN**

## Your patient is unique. Our accessories are original.



**Health is man's most valuable asset** and therefore products that help to preserve health are not to be equated with any other possessions. Espousing this philosophy is something we consistently do, since we concentrate exclusively on the development, manufacture, marketing and servicing of medical devices – an activity we discharge not as a medical department or an enterprise sector within a large concern with many business areas, but rather in our capacity as a large, internationally reputed specialist enterprise for this specialist domain. We are therefore able to target all our decision-making processes precisely towards elucidating what is necessary and beneficial for this sensitive medical electronics market.

**In our view there is always a direct link** between technical and methodical innovations when it comes to research and development of the latest technologies. Only the synthesis of these two components will ensure that the human being will really be the final focus of all efforts. Only those devices that, in addition to optimal technology, are able to assure enhanced patient friendliness, ease of operation and diagnostic accuracy will be placed on the market.



**The direct interface to the patient** is an essential feature of our highly-developed medical devices and systems. The method of signal acquisition plays a pivotal role in collecting the requisite information for successful diagnosis and therapy. We supply a comprehensive range of accessories and consumable materials for each of our products. These are developed, tested and manufactured together with the corresponding devices and are thus precisely tailored to their technical requirements. This is because the quality and reliability of medical devices and systems are inextricably bound up with the quality and reliability of the accessories used.



**Only the use of original accessories** guarantees optimal examination results and makes an important contribution towards ensuring that your device will continue to function impeccably and reliably even in years to come, while preserving the device's features and functional capabilities.

With this catalogue we would now like to give you an overview of our accessories and consumable materials.

I am delighted to have the pleasure of presenting this catalogue to you and hope to have gained your interest in the products behind this quality philosophy!

Yours sincerely,

Dirk Mehlhorn

Head of Department for Technology and Quality Assurance

## Highest Safety and Quality Standards



### Our safety guide

Anyone manufacturing medical devices and accessories must have complete faith in the technology, quality and reliability of their products. Prolonged trial phases, continuous quality checks and state-of-the-art production facilities are indispensable prerequisites here.

**This is because the target being aspired to is: absolute reliability, error-free operation** – especially during those decisive seconds. NIHON KOHDEN has already taken appropriate in-depth measures here. The national and international test standards regulating medical devices are stringent – but often not sufficiently stringent as far as we are concerned. If we believe that the state-of-the-art permits and warrants the use of even more exacting standards, then we shall let these guide us.

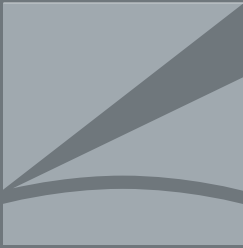


### Quality Assurance in Practice

**A comprehensive quality assurance system** ensures that each of the more than 3,000 NIHON KOHDEN staff members makes his/her contribution towards development, manufacture, marketing and customer services such that maximum product quality is guaranteed.

**NIHON KOHDEN is certified as per** ISO 9001:2000, JIS Q 9001:2000, ISO 13485:1996, ISO 14001:1996, JIS Q 14001:1996 and ISO 13488:2001.

## Trailblazers in Medical Technology



**A lighthouse stands supreme, showing others the way.** With the symbolic light beam of our stylised lighthouse, we express our claim as well as our sense of assurance of standing supreme, while at the same time playing a trailblazing role.

**As one of the leaders in innovation and technology** we have specialized exclusively in the field of medical technology.

Here we feel committed to progress in medicine.

Here we have our core competence.

Here, in the services of health, we find trailblazing solutions in the domains of

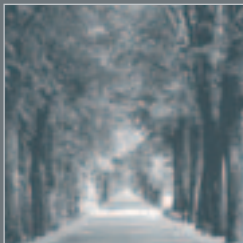
- Neurology
- Cardiology
- Patient monitoring
- Haematology



### Fighting Disease with Electronics

**NIHON KOHDEN shares with you a common goal:** »Fighting Disease« – for the health and quality of life of all patients. To that effect, we support your everyday activities »with Electronics« – with technical product innovations in line with the latest innovations in medical technology.

**NIHON KOHDEN is active in research and development.** The main focus of our activities is on permanently improving diagnostic facilities. We develop all devices for and together with our clients – in the services of the patient. Your requirements and experiences gleaned from everyday practice always serve as the cornerstone of our efforts. You are our yardstick when developing new systems and technologies – from the most minute technical detail right up to the complex system solution.



**NIHON KOHDEN is Tradition and Future at the same time.** With our competence spanning more than 50 years, our various technological innovations and ideas, we shall continue to be a strong partner for you in the future too. Allow yourself to be convinced of the quality and functional capabilities of our products, services and enterprise.

*Fighting Disease with Electronics*

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# Innovations · Highlights

## Elefix – electrode paste

*Copied often, nevertheless never equalled: the NIHON KOHDEN electrode paste Elefix integrates outstanding sticking-qualities with an excellent electrical conductivity. Additionally our engineers succeeded in creating an electrode paste with ideal application characteristics. On the one hand Elefix has a ductile, creamy quality so that the electrodes can be attached firmly to the patient without additional fixation, on the other hand Elefix does not harden so that the electrodes can be removed without any problems even after longer examinations.*

*The contact impedance between skin and electrode is greatly reduced. In addition, the signal transmission remains stable even under unfavourable external conditions.*

*In this way Elefix contact gel sets the standard to which all other conductive sticking-pastes must be compared.*



## Metal plate ground electrode

*The NIHON KOHDEN metal plate ground electrode shows, in a very impressive way, how optimal investigation results can be achieved with simple, pragmatic detailed-solutions:*

*Exemplary hygiene – after use the metal plate can be cleaned and disinfected very simply by wiping with disinfectant!*

*Simple fixing – just apply some Elefix electrode paste to one side of the metal plate ground electrode and attach the electrode to the patient.*

*Excellent measurements – Effective grounding of the patient is achieved by the large contact area!*

*Totally flexible – due to its size and construction this earth electrode can be attached and relocated anywhere on the patient thereby enabling examinations on the upper and lower limbs, thorax or head with the same ground electrode.*

*Universal application – Equally suitable for children and adults!*

Fighting Disease with Electronics

 NIHON KOHDEN



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## Overview of EMG/EP and EEG devices

The original accessories in this catalogue are optimally tailored to our EMG/EP and EEG devices – for reliable examination results and error-free operation of your equipment for many years to come.



MEB-2200



MEM-4104



MEB-4200



MEM-4200



MEB-5200



MEM-5300



MEB-5500



MEB-7102



MEM-7102



MEM-7112



MEB-9102



MEM-9104



MEB-9200



EEG-1100



EEG-4400



EEG-5500



EEG-5600



EEG-7300



EEG-7400



EEG-8300



EEG-9100



EEG-9200



Combo



WEE-1000



# EMG/Evoked Potentials: Surface Electrodes

Surface electrodes (reusable) · page 10 to 11

Disposable electrodes · page 12



## EMG/Evoked Potentials: Surface Electrodes

## Surface Electrodes (reusable)

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies													Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-6300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104		MEB-9200	Combo
• H851	NE-121J	Set of evoked EEG disk electrodes · shielded coloured cables (red, yellow, green, black, white) with 2 mm connector · cable length 1.5 m · electrode material: silver · contains 5 disk electrodes and 1 shorting lead K617	R	-	x	-	-	x	x	-	x	x	x	-	-	-	-	1 set
• K617	2114-064171	Shorting lead for H851 · 2 mm connector	R	-	x	-	-	x	x	-	x	x	x	-	-	-	-	1
• H852A	NE-132B	Set of evoked EEG disk electrodes · shielded coloured cables (red, yellow, green, black, white) with DIN type connector (touch-proof) · cable length 1.5 m · electrode material: silver · contains 5 disk electrodes and 1 shorting lead K617C	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	1 set
• H854	NE-142B	Set of evoked EEG disk electrodes · same as H852A, but with cable length of 0.5 m (illustration similar to H852A)	R	-	-	-	-	-	-	-	-	-	-	x	x	x	x	1 set
• K617C	NE-432B	Shorting lead for H852A and H854 · DIN type connector (touch-proof)	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	1
• BM-910B		Patient cable for surface electrodes H854 · direct connection to main unit (for devices without input-box) · cable length 3.0 m	R	-	-	-	-	-	-	-	-	-	-	x	-	-	-	1
• JB-901B		Mini input-box for H852A and H854 · cable length 5.0 m · with strap	R	-	-	-	-	-	-	-	-	-	-	-	x	x	x1*	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] when using MEB-9104 or MEB-9200



[1] H851 | [2] K617



[1] H852A | [2] K617C



BM-910B



JB-901B

# EMG/Evoked Potentials: Surface Electrodes

## Surface Electrodes (reusable)



H634 | H638



H653



NKD-STL

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies															Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200	Combo			
• H634	NM-312S	Evoked EEG disk electrodes · 6 pin DIN connector · cable length 1.4 m · electrode material: Ag/AgCl (sintered)	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H638	NM-315S	Evoked EEG disk electrodes · same as H634, but cable length of 2.3 m (illustration similar to H634)	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H653	NM-450S	Finger electrode · 5 pin DIN connector · loop length 5 cm (max. diameter ca. 3 cm) · cable length 2.0 m · suitable for measurement electrode and stimulation electrode	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• NKD-STL		Bar electrode · 5 pin DIN connector · cable length 1.5 m · width 20 mm · felt tips · including 8 felt tips	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• NKD-STLF		Felt tips for NKD-STL (for illustration see NKD-STL)	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	20

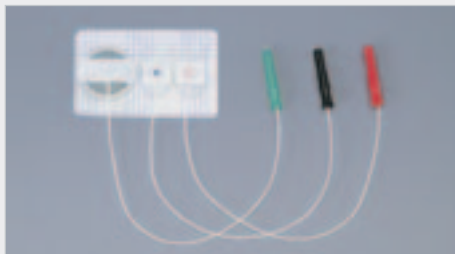
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## EMG/Evoked Potentials: Surface Electrodes

## Disposable Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	Disposable/Reusable/Supplies												Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-6300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104		MEB-9200	Combo
• H690	NM-317Y3	Disposable electrodes · set of 2 measurement electrodes and 1 ground electrode · suitable for NCS · DIN type connector (touch-proof) · cable length 0.3 m · fits to connection cable K625A	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10 x 3
• NKD-NCSD1		Disposable electrodes · size: ca. 15 mm x 20 mm · suitable for NCS and evoked potentials · DIN type connector (touch-proof) · cable length 0.1 m · fits to connection cable K625A and K625B	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	12
• NKD-NCSD2		Disposable electrodes · same as NKD-NCSD1, but cable length of 0.5 m · alternative connection to mini input-box JB-901B or patient cable BM-910B possible (MEB-9100 or MEB-9200, illustration similar to NKD-NCSD1)	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	12
• K625A	BM-001B	Connection cable for disposable electrodes · electrode site: 3 x DIN type connector ("-", "+", "E"), device site: 6 pin DIN connector · cable length 1.7 m	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• K625B	BM-002B	Connection cable for disposable electrodes · same as K625A, but electrode site: 2 x DIN type connector ("-", "+")	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1

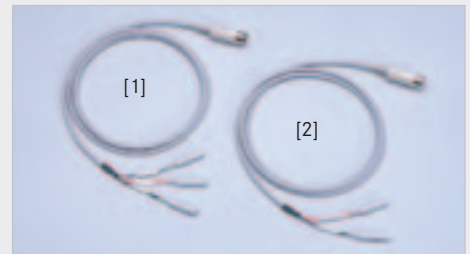
[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



H690



NKD-NCSD1



[1] K625A | [2] K625B

# EMG/Evoked Potentials: EMG Needle Electrodes

Concentric EMG needle electrodes · page 14

Disposable EMG needle electrodes · page 15

Single fiber EMG / Macro EMG needle electrodes · page 16

Bipolar EMG needle electrodes · page 16

Extension cable · page 17



*Fighting Disease with Electronics*

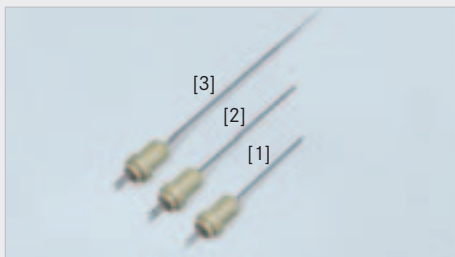
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## EMG/Evoked Potentials: EMG Needle Electrodes

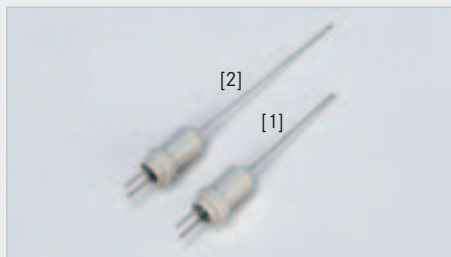
## Concentric EMG Needle Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies														Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200		Combo	
• H630	NM-121T	Concentric EMG needle electrode · needle length 20 mm · diameter 0.45 mm · electrode material: platinum · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H650	NM-131T	Concentric EMG needle electrode · needle length 30 mm · diameter 0.45 mm · electrode material: platinum · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H631	NM-151T	Concentric EMG needle electrode · needle length 50 mm · diameter 0.45 mm · electrode material: platinum · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H651	NM-320T	Concentric EMG needle electrode · needle length 20 mm · diameter 0.3 mm · electrode material: stainless steel · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4
• H652	NM-330T	Concentric EMG needle electrode · needle length 30 mm · diameter 0.3 mm · electrode material: stainless steel · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] H630 | [2] H650 | [3] H631



[1] H651 | [2] H652

**i** Detailed technical data:

- Diameter of the internal electrode: 0.15 mm (H630, H631, H650) or 0.1 mm (H651, H652)
- Active area: 0.07 mm<sup>2</sup> (H630, H631, H650) or 0.03 mm<sup>2</sup> (H651, H652)
- Sharpening angle: 15°
- You can autoclave the needle electrodes at 121 °C and 1 bar overpressure for 30 minutes.



## Disposable EMG Needle Electrodes



NKD-KND1



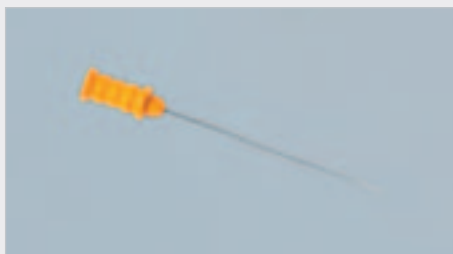
NKD-KND2



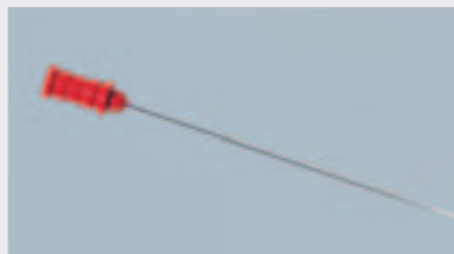
NKD-KND3



NKD-KND4



NKD-KND5



NKD-KND6

Supply Code No.	Description	Disposable/Reusable/ Supplies														Quantity		
			MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200		Combo	
• NKD-KND1	Disposable concentric EMG needle electrode · needle length 25 mm · diameter 0.3 mm · electrode material: stainless steel · sterilised · indication colour light grey · fits to extension cables NKD-KNDK1 and NKD-KNDK2	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25
• NKD-KND2	Disposable concentric EMG needle electrode · needle length 25 mm · diameter 0.45 mm · sterilised · indication colour dark grey · other characteristics same as NKD-KND1	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25
• NKD-KND3	Disposable concentric EMG needle electrode · needle length 30 mm · diameter 0.35 mm · sterilised · indication colour purple · other characteristics same as NKD-KND1	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25
• NKD-KND4	Disposable concentric EMG needle electrode · needle length 38 mm · diameter 0.45 mm · sterilised · indication colour green · other characteristics same as NKD-KND1	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25
• NKD-KND5	Disposable concentric EMG needle electrode · needle length 50 mm · diameter 0.45 mm · sterilised · indication colour yellow · other characteristics same as NKD-KND1	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25
• NKD-KND6	Disposable concentric EMG needle electrode · needle length 75 mm · diameter 0.65 mm · sterilised · indication colour red · other characteristics same as NKD-KND1	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25

[X] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

**i Detailed technical data:**

- Active area: 0.02 mm<sup>2</sup> (NKD-KND1) or 0.07 mm<sup>2</sup> (NKD-KND2 to NKD-KND6)
- Use disposable EMG needle electrodes for single patient only. Never use these disposable EMG needle electrodes for more than one patient! You cannot sterilise disposable EMG needle electrodes after use! These electrodes must be disposed after single use!

**i For detailed information of sterilised accessories see page 20!**

## EMG/Evoked Potentials: EMG Needle Electrodes

## Single Fiber EMG/Macro EMG Needle Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies																	Quantity
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200	Combo			
• H660	NM-640T	Single fiber EMG needle electrode · needle length 20 mm · diameter 0.45 mm · diameter of the internal electrode 0.025 mm · electrode material: platinum · fits to extension cables K611 and K623	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H661	NM-640S	Single fiber Macro EMG needle electrode · needle length 30 mm · diameter 0.45 mm · diameter of the internal electrode 0.03 mm · Teflon isolation up to 15 mm before point of measurement · electrode material: platinum · fits to extension cable K619	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H650A	NM-130S	Concentric Macro EMG needle electrode · needle length 30 mm · diameter 0.45 mm · Teflon isolation up to 15 mm before point of measurement · electrode material: platinum · fits to extension cable K619	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1

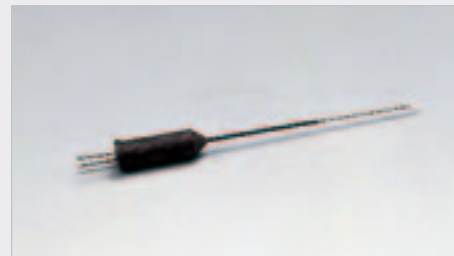
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H660



H661



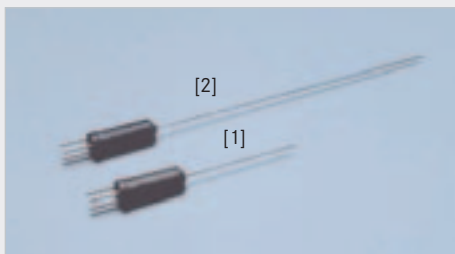
H650A

**i** You can autoclave the needle electrodes at 121°C and 1 bar overpressure for 30 minutes.

## Bipolar EMG Needle Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies																	Quantity
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200	Combo			
• H632	NM-220T	Bipolar EMG needle electrode · needle length 20 mm · diameter 0.4 mm · electrode material: stainless steel · fits to extension cables K612 and K624	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
• H633	NM-250T	Bipolar EMG needle electrode · same as H632, but needle length of 50 mm	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] H632 | [2] H633

**i** Detailed technical data:

- Diameter of the internal electrode: 0.08 mm
- Active area: 0.024 mm<sup>2</sup>
- Sharpening angle: 15°
- You can autoclave the needle electrodes at 121°C and 1 bar overpressure for 30 minutes.

# EMG/Evoked Potentials: EMG Needle Electrodes

## Extension Cable



K611 | K612 | K623 | K624



K619



NKD-KNDK1 | NKD-KNDK2

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies															Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200	Combo			
• K611	BM-121S	Extension cable for EMG needle electrodes · 6 pin DIN connector · cable length 1.0 m · suitable for concentric EMG needle electrodes H630, H631, H650, H651, H652 and single fiber EMG needle electrode H660	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• K623	BM-115S	Extension cable for EMG needle electrodes · same as K611, but cable length of 1.8 m	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• NKD-KNDK1		Extension cable for disposable EMG needle electrodes · 5 pin DIN connector · cable length 1.0 m · suitable for disposable EMG needle electrodes NKD-KND1 to NKD-KND6	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• NKD-KNDK2		Extension cable for disposable EMG needle electrodes · same as NKD-KNDK1, but cable length of 2.0 m	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• K612	BM-211S	Extension cable for bipolar EMG needle electrodes · 6 pin DIN connector · cable length 1.0 m · suitable for bipolar EMG needle electrodes H632 and H633	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• K624	BM-215S	Extension cable for bipolar EMG needle electrodes · same as K612, but cable length of 1.8 m	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• K619	BM-840S	2 channel extension cable for Macro EMG needle electrodes · 6 pin DIN connector · cable length 1.0 m · suitable for macro EMG needle electrodes H650A and H661 · for reference electrode you can use concentric EMG needle electrodes H630, H631, H650, H651 or H652	R	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

# EMG/Evoked Potentials: Needle Electrodes for Evoked Potentials

Needle electrodes for evoked potentials · Extension cables · page 19  
Disposable needle electrodes for evoked potentials · Extension cables · page 20



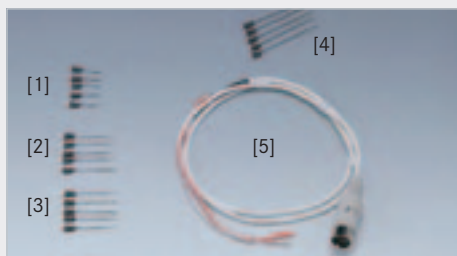
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## Needle Electrodes for Evoked Potentials · Extension Cables

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies															Quantity	
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-6300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200	Combo		
• H666	NM-715S	Monopolar needle electrode for evoked potentials · needle length 15 mm · diameter 0.3 mm · electrode material: stainless steel · delivered without extension cable · fits to extension cable K620	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
• H667	NM-730S	Monopolar needle electrode for evoked potentials · needle length 30 mm · diameter 0.3 mm · electrode material: stainless steel · delivered without extension cable · fits to extension cable K620	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
• H668	NM-830S	Monopolar needle electrode for evoked potentials · needle length 30 mm · diameter 0.4 mm · electrode material: stainless steel · delivered without extension cable · fits to extension cable K620	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
• H669	NM-850S	Monopolar needle electrode for evoked potentials · needle length 50 mm · diameter 0.4 mm · electrode material: stainless steel · delivered without extension cable · fits to extension cable K620	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
• K620	BM-800S	Extension cable for monopolar needle electrodes · 6 pin DIN connector · cable length 1.0 m · suitable for monopolar needle electrodes H666, H667, H668 and H669	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H665	NM-710T	Monopolar needle electrode for evoked potentials · needle length 13 mm · diameter 0.25 mm · electrode material: stainless steel · delivered without extension cable · fits to extension cable K616	R	-	x	-	-	x	x	-	x	x	x	-	-	-	-	-	5
• K616	BM-710S	Extension cable for monopolar needle electrodes · shielded coloured cables (red, yellow, green, black, white) with 2 mm connector · cable length 1.0 m · set of 5 extension cables · suitable for monopolar needle electrodes H665	R	-	x	-	-	x	x	-	x	x	x	-	-	-	-	-	1 set

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] H666 | [2] H667 | [3] H668 | [4] H669  
[5] K620



H665



K616

**i** You can autoclave the needle electrodes at 121 °C and 1 bar overpressure for 30 minutes.

## EMG/Evoked Potentials: Needle Electrodes for Evoked Potentials

## Disposable Needle Electrodes for Evoked Potentials · Extension Cables

Supply Code No.	Description	Disposable/Reusable/ Supplies	MEM												Combo	Quantity		
			MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-6300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104			MEB-9200	
• NKD-EPD1	Disposable needle electrode for evoked potentials · straight type · needle length 12 mm · diameter 0.35 mm · 1 mm connector · cable length 8.0 cm · sterilised · fits to extension cable NKD-EPDK	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	50 x 5
• NKD-EPD2	Disposable needle electrode for evoked potentials · bent type · needle length 12 mm · diameter 0.35 mm · 1 mm connector · cable length 8.0 cm · sterilised · fits to extension cable NKD-EPDK	D	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	50 x 5
• NKD-EPDK	Extension cable for disposable needle electrode · R DIN type connector (touch-proof) · cable length 1.20 m · suitable for NKD-EPD1 and NKD-EPD2	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	x	10

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



NKD-EPD1



NKD-EPD2



NKD-EPDK

### **i** Safety note for sterile delivered accessories

For sterile delivered accessories, please, check the expiry date indicated on the package (▼) YYYY-MM)!

YYYY-MM)!

After expiration the accessory must be sterilised again. Additionally check the package is intact.

If there is any damage or doubt regarding the intact package, the accessory must be sterilised again.

Please follow the manufacturers sterilisation instructions!



# EMG/Evoked Potentials: Stimulation Electrodes · Finger Electrodes

Stimulation electrodes · Finger electrodes · page 22 to 23



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## EMG/Evoked Potentials: Stimulation Electrodes · Finger Electrodes

### Stimulation Electrodes · Finger Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	MEM													Combo	Quantity			
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200					
• H653	NM-450S	Finger electrode · 5 pin DIN connector · loop length 5 cm (max. diameter ca. 3 cm) · cable length 2.0 m · suitable for measurement electrode and stimulation electrode	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H636	NM-420S	Stimulation electrode for adults · 5 pin DIN connector · cable length 2.0 m · electrode diameter 8 mm · electrode distance 23 mm · felt tips · including 10 spare felt tips	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H646	6143-009402	Felt tips for H636	S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
• 2114-080955		Metal tips for stimulation electrode H636 · use instead of felt tips H646 · especially for long term stimulation (i.e. OR)	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H635	NM-410S	Stimulation electrode for children · 5 pin DIN connector · cable length 2.0 m · electrode diameter 4 mm · electrode distance 12 mm · felt tips · including 10 felt tips	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• H647	6143-009411	Felt tips for H635	S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	100
• NKD-STL		Bar electrode · 5 pin DIN connector · cable length 1.5 m · width 20 mm · felt tips · including 8 felt tips	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• NKD-STLF		Felt tips for NKD-STL (for illustration see NKD-STL)	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10

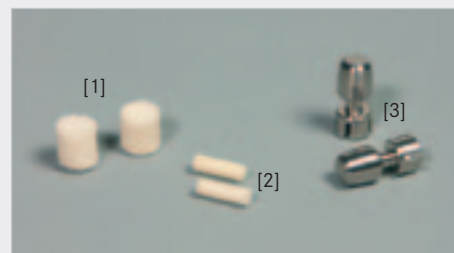
[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



H653



H636



[1] H646 | [2] H647 | [3] 2114-080955



H635



NKD-STL

## Stimulation Electrodes



RY-440B



RY-441B



YZ-0172

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	MEM											Combo	Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102			MEB-9104	MEB-9200
• RY-440B		Stimulation unit with remote control · 8 pin DIN connector · cable length 3.0 m · stimulation electrodes are removable to connect external stimulation electrodes using 5 pin DIN connector · variable stimulation intensity using intensity wheel · stimulation start by pressing a button (single stimulation and continuous stimulation) · ergonomically designed housing	R	-	-	x	x	-	-	x	-	-	-	-	-	-	-	1
• RY-441B		Stimulation unit with remote control · 8 pin DIN connector · cable length 3.0 m · variable stimulation intensity using intensity wheel · stimulation start by pressing a button (single stimulation and continuous stimulation) · ergonomically designed housing	R	x	-	-	-	-	-	-	-	-	-	x	x	x	x	1
• YZ-0172		Adapter 5 pin DIN connector (female) to 8 pin DIN connector (male) · for connection of stimulation or finger electrodes with 5 pin DIN connector to a stimulation output with an 8 pin DIN connector	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

# EMG/Evoked Potentials: Ground Electrodes

Ground electrodes · page 25 to 26



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# EMG/Evoked Potentials: Ground Electrodes

## Ground Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	MEM											Combo	Quantity		
				MEM-2200	MEM-4104	MEM-4200	MEM-4200	MEM-5200	MEM-5300	MEM-5500	MEM-7102	MEM-7102	MEM-7112	MEM-9102			MEM-9104	MEM-9200
• H654	NM-511S	Ground electrode for children · 4 mm dia plug · cable length 1.5 m · length of the ground strap 31 cm · with Velcro tape · ground strap and cable are separate	R	-	x	-	-	x	x	x1*	x	x	x	-	-	-	-	1
• H655	NM-522S	Ground electrode for adults · arm/leg · 4 mm dia plug · cable length 1.5 m · length of the ground strap 45 cm · with Velcro tape · ground strap and cable are separate	R	-	x	-	-	x	x	x1*	x	x	x	-	-	-	-	1
• H656	NM-531S	Ground electrode for adults · thigh · 4 mm dia plug · cable length 1.5 m · length of the ground strap 75 cm · with Velcro tape · ground strap and cable are separate	R	-	x	-	-	x	x	x1*	x	x	x	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] MEM-5504K up to serial no. 00125 (with electrode junction box JB-442BK) · MEM-5508K up to serial no. 00010 (with electrode junction box JB-482BK)



H654



H655



H656

**i** Before use, please moisten the ground strap with physiological salt solution (NaCl solution)!

## EMG/Evoked Potentials: Ground Electrodes

## Ground Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies														Quantity	
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200		Combo
• H664	NM-503B	Ground electrode for children · DIN type connector (touch-proof) · cable length 1.5 m · length of the ground strap 31 cm · with Velcro tape · ground strap and cable are separate	R	x	-	x	x	-	-	x2*	-	-	-	x	x	x	x	1
• H662	NM-501B	Ground electrode for adults · arm/leg · DIN type connector (touch-proof) · cable length 1.5 m · length of the ground strap 45 cm · with Velcro tape · ground strap and cable are separate	R	x	-	x	x	-	-	x2*	-	-	-	x	x	x	x	1
• H663	NM-502B	Ground electrode for adults · thigh · DIN type connector (touch-proof) · cable length 1.5 m · length of the ground strap 75 cm · with Velcro tape · ground strap and cable are separate	R	x	-	x	x	-	-	x2*	-	-	-	x	x	x	x	1
• H657	NM-540B	Metal plate ground electrode · 2 mm dia plug · cable length 1.5 m · diameter 30 mm · uses »Elefix« electrode paste · very hygienic, because of dry use and easy disinfection · easy and universal positioning (illustration similar to H658)	R	-	x	-	-	x	x	x1*	x	x	x	-	-	-	-	1
• H658	NM-550B	Metal plate ground electrode · DIN type connector (touch-proof) · cable length 1.5 m · diameter 30 mm · uses »Elefix« electrode paste · very hygienic, because of dry use and easy disinfection · easy and universal positioning	R	x	-	x	x	-	-	x2*	-	-	-	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] MEB-5504K up to serial no. 00125 (with electrode junction box JB-442BK) · MEB-5508K up to serial no. 00010 (with electrode junction box JB-482BK)

[2\*] MEB-5504K from serial no. 00126 (with electrode junction box JB-443BK) · MEB-5508K from serial no. 00011 (with electrode junction box JB-483BK)



H662 | H663 | H664



H658

**i** Before use, please moisten the ground strap with physiological salt solution (NaCl solution)!



# EMG/Evoked Potentials: Stimulators

Acoustic stimulators · page 28 to 29

Visual stimulators · page 29



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## EMG/Evoked Potentials: Stimulators

## Acoustic Stimulators



DR-531B-10



DR-531B-14



[1] EAR-PAD | [2] EAR-PAD/C



HEAD-BAND | HEAD-BAND/C

Supply Code No.	Description	Disposable/Reusable/ Supplies	MEM													Combo	Quantity	
			MEM-2200	MEM-4104	MEM-4200	MEM-4200	MEM-5200	MEM-5300	MEM-5500	MEM-7102	MEM-7102	MEM-7112	MEM-9102	MEM-9104	MEM-9200			
• DR-531B-9	Head phones · 3 pin XLR connector · cable length 3 m · R shielded cable and shielded loudspeaker housing (illustration similar to DR-531B-10)	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	1
• DR-531B-10	Head phones · 4 pin XLR connector · cable length 3 m · R shielded cable and shielded loudspeaker housing	x	x	x	-	-	x	x	x	-	-	-	-	-	-	-	-	1
• DR-531B-14	Head phones · 5 pin DIN connector · cable length 3 m · R shielded cable and shielded loudspeaker housing	-	-	-	-	-	-	-	-	-	-	x	x	x	x	x	x	1
• EAR-PAD	Ear pads for adults · suitable for head phones DR-531B-9, DR-531B-10 and DR-531B-14	R	x	x	x	-	x	x	x	x	-	-	x	x	x	x	x	2
• EAR-PAD/C	Ear pads for children · used instead of ear pads for adults	R	x	x	x	-	x	x	x	x	-	-	x	x	x	x	x	2
• HEAD-BAND	Head band for adults · suitable for head phones DR-531B-9, DR-531B-10 and DR-531B-14	R	x	x	x	-	x	x	x	x	-	-	x	x	x	x	x	1
• HEAD-BAND/C	Head band for children · used instead of head band for adults	R	x	x	x	-	x	x	x	x	-	-	x	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

**i** We will support you with head phones for repair or replacement! Please contact our technical service direct.

## EMG/Evoked Potentials: Stimulators

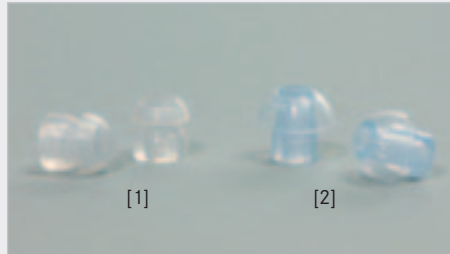
## Acoustic Stimulators

Supply Code No.	Description	Disposable/Reusable/ Supplies	MEM												Combo	Quantity	
			MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104			MEB-9200
• YE-102J	Ear phones for surgical use · 4 pin XLR connector · cable length 3.0 m · supplied with ear adapters for adults 656505 · also suitable for children (please order ear adapter for children 2114-073687 separately)	R	x	x	x	-	x	x	x	x	-	-	-	-	-	-	1
• 656505	Ear adapter for ear phones YE-102J for surgical use · adults · length 12 mm · diameter 12 mm	R	x	x	x	-	x	x	x	x	-	-	-	-	-	-	2
• 2114-073687	Ear adapter for ear phones YE-102J for surgical use · children · length 10 mm · diameter 10 mm	R	x	x	x	-	x	x	x	x	-	-	-	-	-	-	1
• YE-103J	Ear phones for surgical use · 5 pin round DIN connector · cable length 3.0 m · supplied with 2 ear adapters in 5 different sizes each	R	-	-	-	-	-	-	-	-	-	-	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



YE-102J



[1] 2114-073687 | [2] 656505



YE-103J

## Visual Stimulators

Supply Code No.	Description	Disposable/Reusable/ Supplies	MEM												Combo	Quantity	
			MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104			MEB-9200
• LS-101J	LED goggle · 7 pin bayonet connector · cable length 3.0 m	R	x	-	x	-	-	-	x	-	-	-	-	-	-	-	1
• LS-102J	LED goggle · 4 pin DIN connector · cable length 3.0 m	R	-	-	-	-	-	-	-	-	-	-	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



LS-101J



LS-102J

# EMG/Evoked Potentials: Recording Paper

Recording paper · page 31



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# EMG/Evoked Potentials: Recording Paper

## Recording Paper

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies													Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104		MEB-9200	Combo
• NKD-210-10A	FUW210-8A	Thermal recording paper · Z-fold · 210 mm x 80 m (each page 300 mm) · without grid · with page marker and perforation · A731A	S	-	x	x	x	-	-	-	-	-	-	-	-	-	-	1
• A720B	FQW210-10B	Thermal recording paper · Z-fold · 210 mm x 100 m (each page 300 mm) · without grid · with page marker and perforation	S	-	x	x	x	-	-	-	-	-	-	-	-	-	-	5
• A811	QW80-3	Thermal recording paper · roll · 80 mm x 30 m · without grid · without page marker and without perforation	S	-	-	-	-	x	-	-	-	-	-	-	-	-	-	5
• NKD-110-150	FQW110-3-150	Thermal recording paper · Z-fold · 110 mm x 30 m (each page 150 mm) · without grid · with page marker and perforation · A725	S	-	-	-	-	-	x	-	x	x	x	-	-	-	-	1
• A726	FQW110-2-150	Thermal recording paper · Z-fold · 110 mm x 20 m (each page 150 mm) · without grid · with page marker and perforation	S	-	-	-	-	-	-	x	-	-	-	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



# EMG/Evoked Potentials: Paste and Gel

Paste and gel · page 33



*Fighting Disease with Electronics*

# EMG/Evoked Potentials: Paste and Gel

## Paste and Gel

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies														Quantity		
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200		Combo	
• F509	Z-181JE	»Elefix« electrode paste · 180 g tube · ideal for applications with surface electrodes · excellent adhesive and conductive qualities	S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• F510	Z-401CE	»Elefix« electrode paste · 400 g cup · ideal for applications with surface electrodes · excellent adhesive and conductive qualities	S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• F020	YZ-0019	»SkinPure« skin preparation gel · 135 g tube · reduces the electrode skin impedance	S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



F509



F510



F020

# EMG/Evoked Potentials: Other Accessories

Adapters and power cable · page 35



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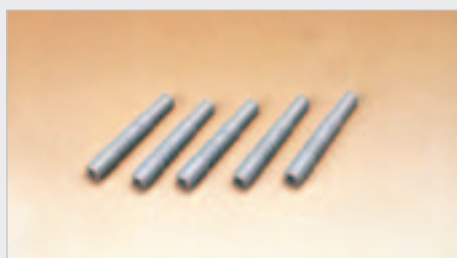


## EMG/Evoked Potentials: Other Accessories

### Adapters and Power Cable

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies														Quantity	
				MEB-2200	MEM-4104	MEB-4200	MEM-4200	MEB-5200	MEB-5300	MEB-5500	MEB-7102	MEM-7102	MEM-7112	MEB-9102	MEB-9104	MEB-9200		Combo
• <b>Y085</b>	6144-007171	Adapter with 2 mm socket and DIN type connector (touch-proof) · to connect electrode cables with 2 mm connector to electrode junction boxes with DIN type sockets	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	1
• <b>K610</b>	BM-300S	Adapter with 6 pin DIN socket and 5 pin DIN connector · to connect electrode cables with 6 pin DIN connector to electrode junction boxes/stimulators with 5 pin DIN sockets · CAUTION: never use needle electrodes for electrical stimulation!	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• <b>YZ-0172</b>		Adapter with 5 pin DIN socket and 8 pin DIN connector · to connect stimulation electrodes or finger electrodes with 5 pin DIN connector to a stimulation output with 8 pin DIN socket	R	x	-	x	x	-	-	x	-	-	-	x	x	x	x	1
• <b>NKD-L936</b>	314839B	Power cable · cable length 2.5 m	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



Y085



[1] K610 | [2] YZ-0172



NKD-L936

# EEG: EEG Accessory Kit

EEG accessory kit · page 37



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# EEG: EEG Accessory Kit

## EEG Accessory Kit

Supply Code No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• BE-412AG	Complete EEG accessory kit contains: 1 x BE-0007 universal EEG cap 1 x BE-0008 chin strap for universal EEG cap 23 x BE-0005W EEG saline pad electrodes 23 x 2144-011154C electrode cables with 2 mm connector 1 set 2114-073321 electrode felt pads 1 set 2144-011555 O-rings 2 x K512 connection cable for ECG electrode FastClip electrodes with 2 mm connector	R/S	-	x	-	-	x	-	x	-	-	-	-	-	1 set
• BE-413AG	Complete EEG accessory kit contains: 1 x BE-0007 universal EEG cap 1 x BE-0008 chin strap for universal EEG cap 23 x BE-0005W EEG saline pad electrodes 23 x 6144-003602C electrode cables with DIN type connector (touch-proof) 1 set 2114-073321 electrode felt pads 1 set 2144-011555 O-rings 3 x NE-313AG ear electrodes 2 x K512A connection cable for ECG electrode FastClip electrodes with DIN type connector (touch-proof)	R/S	x	-	x	x	-	x	-	x	x	x	x	-	1 set

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



BE-412AG



BE-413AG

**i** Detailed descriptions for individual items in the accessory kit can be found in the following sections.

# EEG: EEG Caps

EEG caps · page 39

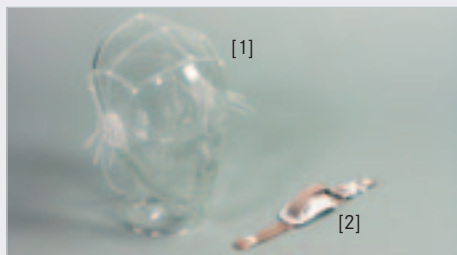


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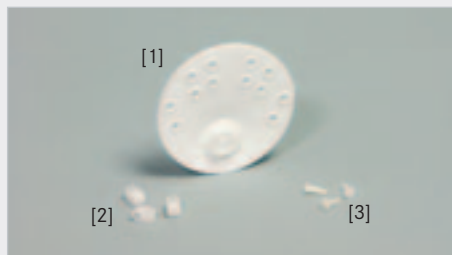
EEG Caps

Supply Code No.	Article No.	Description	Disposable/Reusable/Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• BE-0007		Universal EEG cap · adjustable silicon tubes allow flexible adaptation to different head sizes and forms · to fix EEG saline pad electrodes in the format of the 10-20-system · chin strap BE-0008 is not included – please order separately!	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• BE-0008		Chin strap for universal EEG cap BE-0007 · length adjustable · with chin guard	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• 1144-008488B		Ear part · spare part for universal EEG cap BE-0007	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• 2114-073312		Tube joint · spare part for universal EEG cap BE-0007	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• 2114-073401		Tube stopper · spare part for universal EEG cap BE-0007	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• NKD-20		Schroeter EEG cap for neonates · size 20 cm · to fix EEG saline pad electrodes in the format of the 10-20-system · chin strap is included	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• NKD-26		Schroeter EEG cap for children · size 26 cm · to fix EEG saline pad electrodes in the format of the 10-20-system · chin strap is included	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• NKD-30		Schroeter EEG cap for adults · size 30 cm · to fix EEG saline pad electrodes in the format of the 10-20-system · chin strap is included	R	x	x	x	x	x	x	x	x	x	x	x	-	1
• H568	2114-042676	EEG net · to fix EEG disk electrodes · net structure allows electrode preparation with the net in place · ideal for long term examinations	R	x	x	x	x	x	x	x	x	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] BE-0007 | [2] BE-0008



[1] 1144-008488B | [2] 2114-073312  
[3] 2114-073401



NKD-20 | NKD-26 | NKD-30



H568

# EEG: EEG Saline Pad Electrodes

EEG saline pad electrodes · page 41



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# EEG: EEG Saline Pad Electrodes

## EEG Saline Pad Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• <b>BE-0005W</b>		EEG saline pad electrode · electrode material: Ag/AgCl, sintered, durable chloride coating · flexible foot and stable against tipping over · with 2 mm connection and crosswise hole	R	x	x1*	x	x	x1*	x	x	x	x	x	x	-	1
• <b>NKD-Filz</b>		Electrode felt pad · for EEG saline pad electrode BE-0005W · fixation with O-ring 2144-011555	S	x	x2*	x	x	x2*	x	x	x	x	x	x	-	100
• <b>2144-011555</b>		O-ring · rubber rings on applicator · for EEG saline pad electrode BE-0005W · used for fixation of felt pads 2114-073321	S	x	x2*	x	x	x2*	x	x	x	x	x	x	-	50
• <b>2144-008942</b>		EEG saline pad electrode · electrode material: pure silver, chloridable · flexible foot and stable against tipping over · with 2 mm connection and crosswise hole	R	x	x1*	x	x	x1*	x	x	x	x	x	x	-	1
• <b>H542</b>	NE-401B	EEG saline pad electrode · electrode material: pure silver, chloridable · flexible foot and stable against tipping over · with 2.5 mm connection and crosswise hole	R	-	x3*	-	-	x3*	-	x3*	-	-	-	-	-	1
• <b>H561</b>	186504	Set electrode accessories · contains 100 felt tips, 100 felt pads and 50 O-rings · for EEG saline pad electrode 2144-008942 and H542	S	-	x4*	-	-	x4*	-	x4*	-	-	-	-	-	1 set

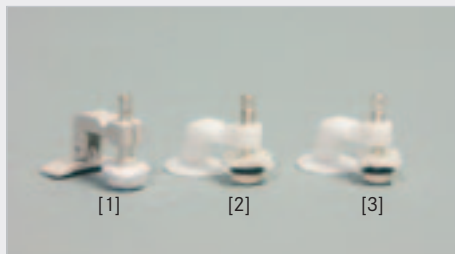
[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] when using EEG electrode cable 2144-011154A

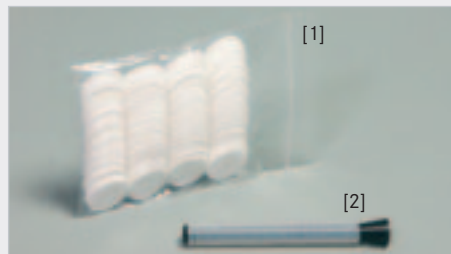
[2\*] when using EEG saline pad electrode BE-0005W

[3\*] when using EEG electrode cable NKD/2-2,5

[4\*] when using EEG saline pad electrode 2144-008942 or H542



[1] BE-0005W | [2] 2144-008942 | [3] H542



[1] NKD-Filz | [2] 2144-011555



H561

# EEG: Ear Electrodes

Ear electrodes · page 43



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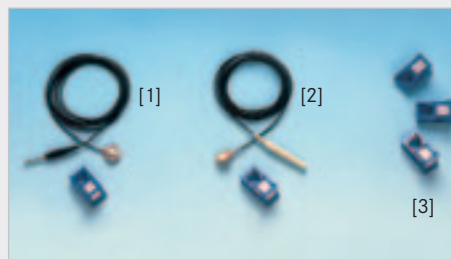
## Ear Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• NE-312AG		Ear electrode · electrode material: Ag/AgCl, sintered, durable chloride coating · including connection cable (separate) with 2 mm connector · cable length 0.9 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	-	1
• NE-313AG		Ear electrode · same as NE-312AG, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• H540	NE-301A	Ear electrode with clip · electrode material: pure silver · connection cable (not removable) with 2 mm connector · cable length 1.5 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	-	1
• H540A	NE-311A	Ear electrode with clip · same as H540, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• H541	NE-301B	Clip for ear electrode H540 and H540A · spare part	R	x	x	x	x	x	x	x	x	x	x	x	-	10

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies  
 [1\*] when using adapter Y085



[1] NE-313AG | [2] NE-312AG



[1] H540 | [2] H540A | [3] H541

# EEG: EEG Electrode Cable

EEG electrode cable · page 45



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## EEG: EEG Electrode Cable

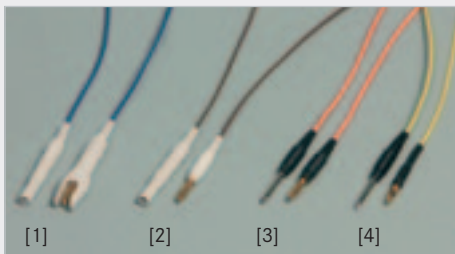
### EEG Electrode Cable

Supply Code No.	Description	Disposable/Reusable/Supplies											Trackit EEG Recorder	Quantity	
		Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo			WEE-1000
• 6144-003602C	Electrode cable for EEG saline pad electrodes BE-0005W, 2144-008942 and ear electrodes NE-313AG · electrode connection: 2 mm DIN type connector, electrode junction box connection: DIN type connector (touch-proof) · cable length 0.9 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• 2144-012358F	Electrode cable for EEG saline pad electrodes BE-0005W, 2144-008942 and ear electrodes NE-313AG · electrode connection: 2 mm connector, electrode junction box connection: DIN type connector (touch-proof) · cable length 0.9 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• 2144-011154A	Electrode cable for EEG saline pad electrodes BE-0005W, 2144-008942 and ear electrodes NE-312AG · electrode connection: 2 mm connector, electrode junction box connection: 2 mm connector · cable length 0.8 m	R	-	x1*	-	-	x1*	-	x1*	-	-	-	-	-	1
• NKD/2-2,5	Electrode cable for EEG saline pad electrodes H542 · electrode connection: 2.5 mm connector, electrode junction box connection: 2 mm connector · cable length 0.8 m	R	-	x2*	-	-	x2*	-	x2*	-	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] when using EEG saline pad electrodes BE-0005W or 2144-008942

[2\*] when using EEG saline pad electrodes H542



[1] 6144-003602C | [2] 2144-012358F

[3] 2144-011154A | [4] NKD/2-2,5

# EEG: ECG Electrodes

ECG electrodes · page 47



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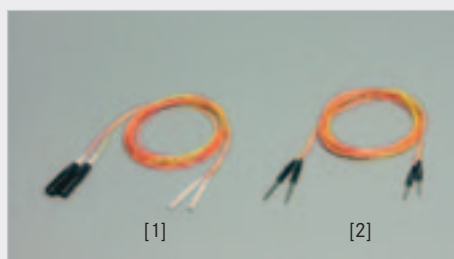
ECG Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100											Trackit EEG Recorder	Quantity	
				EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000			
• H068	2144-005553	FastClip ECG electrodes for adults · blue · with connector for 3 mm dia plug with spring contact (AHA)	R	x	x	x	x	x	x	x	x	x	x	x	x	-	4
• K512	BC-102B	Connection cable for FastClip ECG electrodes H068 · multi coloured (red, yellow) · 2 mm connector · cable length 2.0 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	x1*	-	2
• K512A	BC-112B	Connection cable for FastClip ECG electrodes H068 · same as K512, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	x	-	2
• NKD-K10/C	2062000330	Clip-on limb electrodes for children · electrode material: Ag/AgCl · multi coloured (red, yellow, green, black) · with connector for 4 mm dia plug with spring contact, snap or clip type adapter	R	x	x	x	x	x	x	x	x	x	x	x	x	-	4
• NKD-KR4B2SS		Connection cable for clip-on limb electrodes NKD-K10/C · 2 mm connector · cable length 1.5 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	x1*	-	1
• NKD-KR4BDINS		Connection cable · same as NKD-KR4B2SS, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	x	-	1

[X] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies  
 [1\*] when using adapter Y085



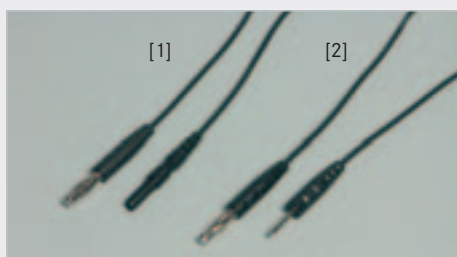
H068



[1] K512A | [2] K512



NKD-K10/C



[1] NKD-KR4BDINS | [2] NKD-KR4B2SS

# EEG: Surface Electrodes

Surface electrodes · page 49



*Fighting Disease with Electronics*

## Surface Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies												Quantity			
				EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000		Trackit EEG Recorder		
• H503	NE-103A	Surface electrode · electrode material: pure silver · suitable for EOG and EMG derivations · 2 mm connector · cable length 1.5 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x	x1*	x1*	x1*	x1*	x1*	1
• H503A	NE-113A	Surface electrode · same as H503, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	1
• H520	NE-124A	Collodion electrode · electrode material: pure silver · suitable for EEG derivations · 2 mm connector · cable length 1.5 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	x1*	x1*	x1*	12
• H521	NE-126A	Collodion electrode · same as H520, but cable length of 0.7 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x1*	x1*	x1*	x1*	x1*	x1*	12
• H526	NE-134A	Collodion electrode · electrode material: pure silver · suitable for EEG derivations · DIN type connector (touch-proof) · cable length 1.5 m	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	12
• H527	NE-136A	Collodion electrode · same as H526, but cable length of 0.7 m	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	12
• NKD-FE5GH	FE5GH-15	Gold electrode GRASS® · electrode material: gold (golden surface) · suitable for EEG derivations · DIN type connector (touch-proof) · cable length 1.5 m	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	10
• NKD-FE5GH-12	FE5GH-12	Gold electrode GRASS® · same as NKD-FE5GH, but cable length of 1.2 m (illustration similar to NKD-FE5GH)	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	10
• NKD-FE5GH-07	FE5GH-07	Gold electrode GRASS® · same as NKD-FE5GH, but cable length of 0.7 m (illustration similar to NKD-FE5GH)	R	x	-	x	x	-	x	-	x	x	x	x	x	x	x	10
• BE-911A		Shielded surface electrodes · electrode material: pure silver · includes connection cable and 24 shielded surface electrodes · 50 pin connector · cable length 1.5 m	R	-	-	-	-	-	-	-	-	x2*	x2*	x2*	-	-	-	1
• BE-912A		Shielded surface electrodes · same as BE-911A, but with 12 shielded surface electrodes (illustration similar to BE-911A)	R	-	-	-	-	-	-	-	-	x2*	x2*	x2*	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] when using adapter Y085

[2\*] when using input-box JE-910Ax or JE-911Ax



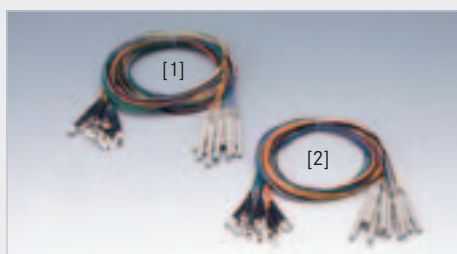
H503



H503A



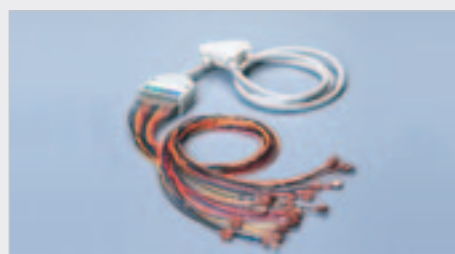
H520 | H521



[1] H526 | [2] H527



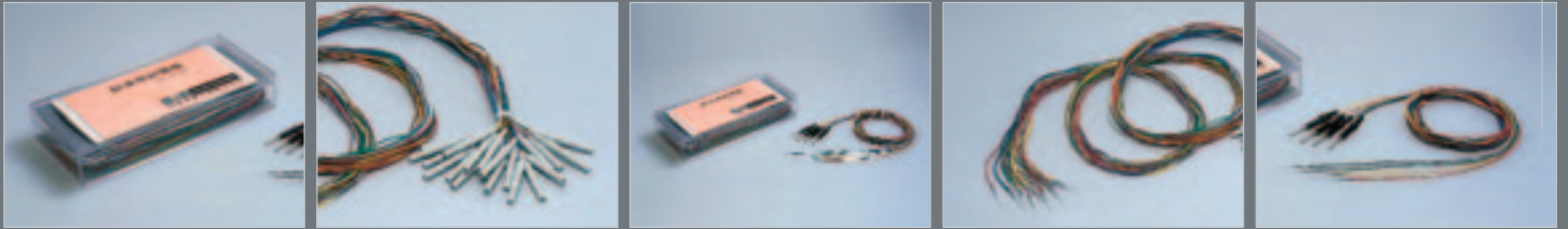
NKD-FE5GH



BE-911A

# EEG: Needle Electrodes

Needle electrodes · page 51



*Fighting Disease with Electronics*





# EEG: Needle Electrodes

## Needle Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/Supplies												Trackit EEG Recorder	Quantity		
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000					
• H537	NE-223S	Needle electrodes · electrode material: stainless steel · suitable for EEG derivations and evoked potentials · needle length 12 mm · directly connected to connection cable · 2 mm connector · cable length 1.5 m	R	x1*	x	x1*	x1*	x	x1*	x	x1*	x	x1*	x1*	x1*	x1*	-	20
• H537A	NE-224S	Needle electrodes · same as H537, but with DIN type connector (touch-proof)	R	x	-	x	x	-	x	-	x	x	x	x	x	x	-	20

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies  
 [1\*] when using adapter Y085



H537



H537A

# EEG: Respiration Pickups

Respiration pickups · page 53



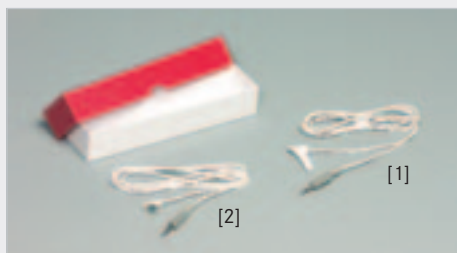
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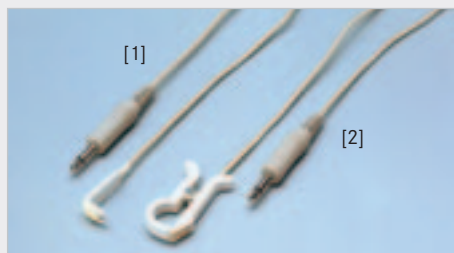
## Respiration Pickups

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• TR-0001		3 way respiration pickup for adults · thermistor · for recording of oral and nasal air flow · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• TR-0002		3 way respiration pickup for children · thermistor · for recording of oral and nasal air flow · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• P630	TR-761T	Respiration pickup · L type · thermistor · for recording of air flow · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• P631	TR-762T	Respiration pickup · clip type · thermistor · for recording of air flow · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• P610	TR-751T	Respiration pickup with respiration belt for adults · measurement of expansion · for recording of movements of thorax or abdomen · adjustment for body circumference by elastic rubber belt and clip fastener · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1
• P611	TR-752T	Respiration pickup with respiration belt for children · measurement of expansion · for recording of movements of thorax or abdomen · adjustment for body circumference by elastic rubber belt and clip fastener · 3.5 mm connector · cable length 3.0 m	R	x	-	x	x	-	x	-	x	x	x	x	-	1

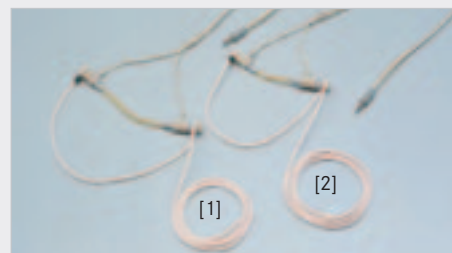
[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] TR-0001 | [2] TR-0002



[1] P630 | [2] P631



[1] P610 | [2] P611

# EEG: Sleep Study

ECG electrodes · page 55

EEG collodion electrodes · page 55

Respiration pickups · page 56

Body position sensor · page 56

SpO<sub>2</sub> measurement · page 57 to 58



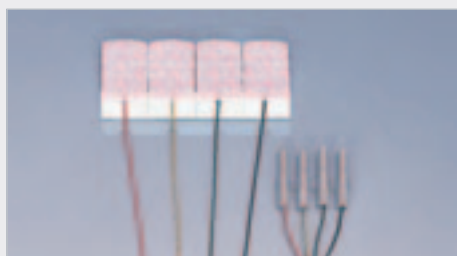
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## ECG Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• G272B	V-040M4	Vitrode V · disposable ECG electrode · electrode material: Ag/AgCl · size: ca. 25 mm x 45 mm · DIN type connector (touch-proof) · cable length 1.0 m · conductive hydro gel with excellent adhesive advantages · foam and cotton tape · 4 electrodes for ECG monitoring · coloured cables (red, yellow, green, black)	D	x	-	-	-	-	-	-	x	x	x	x	x	10 x 4
• NKD-KR26DIN20	KR26DIN20	Extension cable for disposable ECG electrode G272B · cable length 1.0 m	R	x	-	-	-	-	-	-	x	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



G272B

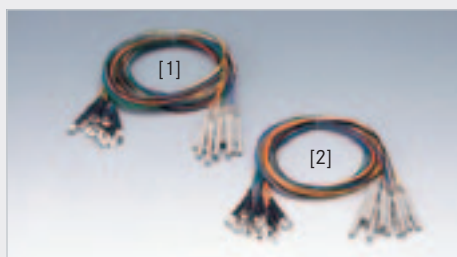


NKD-KR26DIN20

## EEG Collodion Electrodes

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• H526	NE-134A	Collodion electrode · electrode material: pure silver · suitable for EEG derivations · DIN type connector (touch-proof) · cable length 1.5 m	R	x	-	x	x	-	x	-	x	x	x	x	x	12
• H527	NE-136A	Collodion electrode · same as H526, but cable length of 0.7 m	R	x	-	x	x	-	x	-	x	x	x	x	x	12
• NKD-FE5GH	FE5GH-15	Gold electrode GRASS® · electrode material: gold (golden surface) · suitable for EEG derivations · DIN type connector (touch-proof) · cable length 1.5 m	R	x	-	x	x	-	x	-	x	x	x	x	x	10
• NKD-FE5GH-12	FE5GH-12	Gold electrode GRASS® · same as NKD-FE5GH, but cable length of 1.2 m (illustration similar to NKD-FE5GH)	R	x	-	x	x	-	x	-	x	x	x	x	x	10
• NKD-FE5GH-07	FE5GH-07	Gold electrode GRASS® · same as NKD-FE5GH, but cable length of 0.7 m (illustration similar to NKD-FE5GH)	R	x	-	x	x	-	x	-	x	x	x	x	x	10

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] H526 | [2] H527



NKD-FE5GH

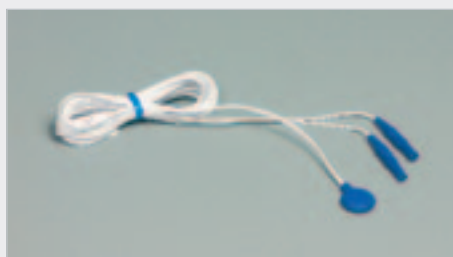
Disposable accessories can be used once only. Do not use disposable accessories repeatedly!

## EEG: Sleep Study

### Respiration Pickups



[1] NKD-F-ONT2 | [2] NKD-F-RCT-A



NKD-F-PSS1

Supply Code No.	Description	Disposable/Reusable/ Supplies												Quantity		
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000		Trackit EEG Recorder	
• NKD-F-ONT2	3 way respiration pickup PRO-TECH® for adults · thermistor · for recording of oral and nasal air flow	R	x	-	-	-	-	-	-	-	x	x	x	x	x	1
• NKD-F-ONTP	3 way respiration pickup PRO-TECH® for children · thermistor · for recording of oral and nasal air flow (illustration similar to NKD-F-ONT2)	R	x	-	-	-	-	-	-	-	x	x	x	x	x	1
• NKD-F-RCT-A	Respiration pickup PRO-TECH® with respiration belt for adults · piezo-electric · for recording of movements of thorax and abdomen · includes adjustable belt	R	x	-	-	-	-	-	-	-	x	x	x	x	x	1
• NKD-F-RCT-P	Respiration pickup PRO-TECH® with respiration belt for children · piezo-electric · for recording of movements of thorax and abdomen · includes adjustable belt (illustration similar to NKD-F-RCT-A)	R	x	-	-	-	-	-	-	-	x	x	x	x	x	1
• NKD-F-PSS1	Snore sensor PRO-TECH® · piezo-electric · for detection of snore noises during sleep · small and easy to attach · model 1696	R	x	-	-	-	-	-	-	-	x	x	x	x	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

### Body Position Sensor

Supply Code No.	Description	Disposable/Reusable/ Supplies												Quantity		
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000		Trackit EEG Recorder	
• NKD-PROTEC1664	Body position sensor PRO-TECH® · SPI DC sensor · for recording of body positions during sleep studies	R	x	-	-	-	-	-	-	-	x	x	x	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



NKD-PROTEC1664

## SpO<sub>2</sub> Measurement

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• Y090	JL-951T3	SpO <sub>2</sub> adapter cable · for connection to the PSG input-box JE-912AG	R	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• P225F	TL-201T	Finger probe BluPRO® series · for adults and children with a weight of more than 20 kg · cable length 1.6 m	R	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• P201A	TL-251T	Disposable probe BluPRO® series for finger or toe · for adults with a weight of more than 30 kg · cable length 1.6 m	D	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	5
• P201B	TL-252T	Disposable probe BluPRO® series for finger or toe · for children with a weight between 3 kg and 40 kg · cable length 1.6 m	D	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	5
• P201C	TL-253T	Disposable probe BluPRO® series for foot · for infants with a weight of less than 3 kg · cable length 1.6 m	D	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	5
• P259	340703	COTTONY tape for fixing the disposable probes	S	x1*	-	-	-	-	-	-	x1*	x1*	x1*	-	-	20
• JL-101A		SpO <sub>2</sub> adapter cable NONIN® · 3.5 mm connector · cable length 2.0 m	R	-	-	-	-	-	-	-	-	-	-	x	-	1
• NF-XPOD		SpO <sub>2</sub> adapter cable NONIN® · 15 pin miniature sub D connector · cable length 2.0 m	R	-	-	-	-	-	-	-	-	-	-	-	x	1

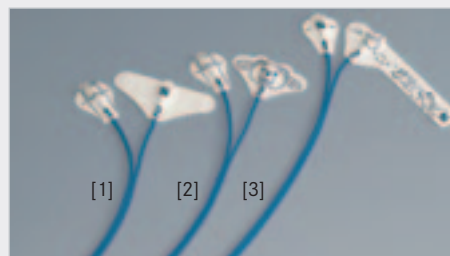
[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies  
 [1\*] when using PSG electrode junction box JE-912A



Y090



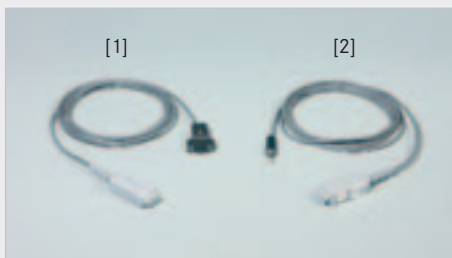
P225F



[1] P201A | [2] P201B | [3] P201C



P259



[1] NF-XPOD | [2] JL-101A

## EEG: Sleep Study

### SpO<sub>2</sub> Measurement



NKD-FCS1/8000AA



NKD-FCS1/8000AP



NKD-FF2/7000A



NKD-FF2/7000P

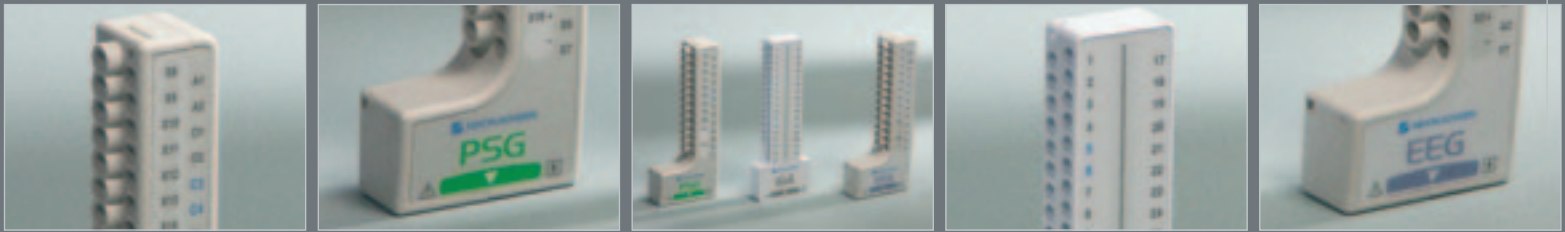
Supply Code No.	Description	Disposable/Reusable/ Supplies												Trackit EEG Recorder	Quantity	
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000			
• NKD-FCS1/8000AA	Finger sensor NONIN® · for adults · cable length 1.0 m	R	-	-	-	-	-	-	-	-	-	-	-	x	x	1
• NKD-FCS3/8000AA	Finger sensor NONIN® · for adults · cable length 3.0 m (illustration similar to NKD-FCS1/8000AA)	R	-	-	-	-	-	-	-	-	-	-	-	x	x	1
• NKD-FCS1/8000AP	Finger sensor NONIN® · for children · cable length 1.0 m	R	-	-	-	-	-	-	-	-	-	-	-	x	x	1
• NKD-FF2/7000A	Disposable sensor NONIN® flexi form II · for adults · cable length 1.0 m	D	-	-	-	-	-	-	-	-	-	-	-	x	x	10
• NKD-FF2/7000P	Disposable sensor NONIN® flexi form II · for children · cable length 1.0 m	D	-	-	-	-	-	-	-	-	-	-	-	x	x	10

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



# EEG: Mini Electrode Junction Boxes

Mini electrode junction boxes · page 60



*Fighting Disease with Electronics*

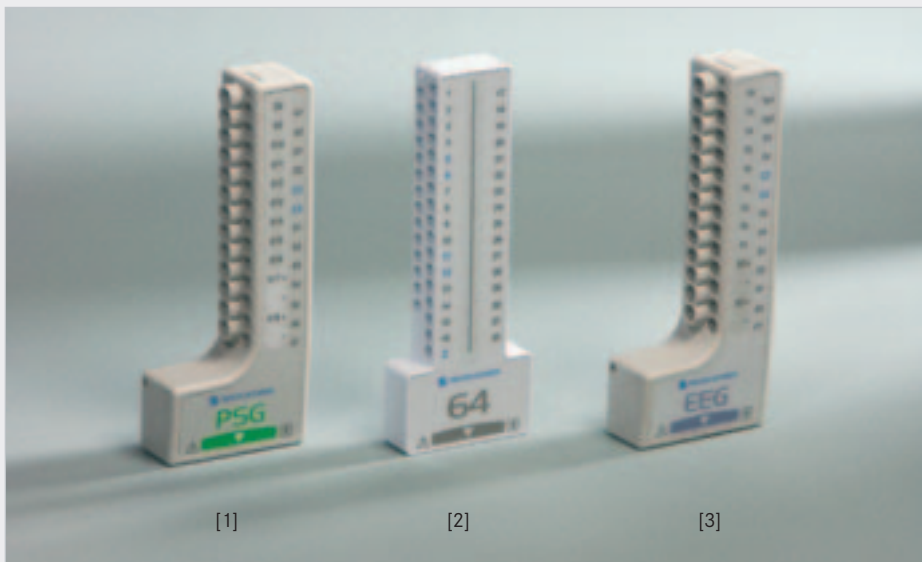
 NIHON KOHDEN

## EEG: Mini Electrode Junction Boxes

## Mini Electrode Junction Boxes

Supply Code No.	Description	Disposable/Reusable/ Supplies											Trackit EEG Recorder	Quantity		
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo			WEE-1000	
• JE-011A	Mini electrode junction box for EEG derivations · 26 electrode inputs for DIN type connectors (touch-proof) · labelling corresponds to 10-20-system · including connection cable · cable length 0.8 m	R	-	-	-	-	-	-	-	-	-	-	-	x	-	1
• JE-012A	Mini electrode junction box for polysomnography · 26 electrode inputs for DIN type connectors (touch-proof) · labelling corresponds to polysomnography · including connection cable · cable length 0.8 m	R	-	-	-	-	-	-	-	-	-	-	-	-	x	1
• JE-013A	64 channel mini electrode junction box · 64 electrode inputs for DIN type connectors (touch-proof) · numeric labelling · including connection cable · cable length 0.8 m	R	-	-	-	-	-	-	-	-	-	-	-	-	x	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



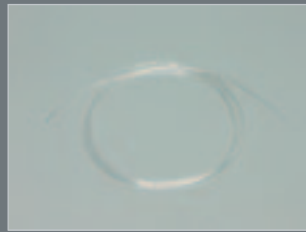
[1] JE-012A | [2] JE-013A | [3] JE-011A



# EEG: Pens



Pens · page 62



*Fighting Disease with Electronics*



## EEG: Pens

## Pens

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies												Quantity	
				EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000		Trackit EEG Recorder
• M524A	YE-010A	Pen SJ-120AM · steel tip · length 120 mm	S	-	x	-	-	x	x	x	-	-	-	-	-	1
• M531A	YE-017A	Pen SJ-120SM · ruby tip · length 120 mm (illustration similar to M524A)	S	-	x	-	-	x	x	x	-	-	-	-	-	1
• 2114-024428		Adjustment tool for pens · for adjustment of the pen pressure (mechanical attenuation)	R	-	x	-	-	x	x	x	-	-	-	-	-	1
• 2114-046529		INBUS wrench with plastic handle · size: 1,5 mm · for mounting of the pen and for adjustment of the pen pressure	R	-	x	-	-	x	x	x	-	-	-	-	-	1
• NKD-INBUS		INBUS wrench · size: 1,5 mm · for mounting of the pen and for adjustment of the pen pressure	R	-	x	-	-	x	x	x	-	-	-	-	-	1
• M540	6114-009395	Ink tube · for all EEG systems with ink recording system · length 2.0 m	S	-	x	-	-	x	x	x	-	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



M524A



[1] 2114-046529 | [2] NKD-INBUS

[3] 2114-024428



M540

# EEG: Ink Pumps · Ink

Ink pumps · page 64

Ink · page 64



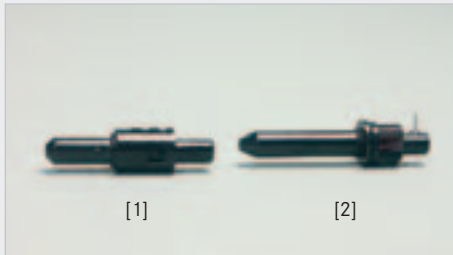
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## EEG: Ink Pumps · Ink

### Ink Pumps

Supply Code No.	Description	Disposable/Reusable/ Supplies	EEG-1100										Trackit EEG Recorder	Quantity	
			EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo			WEE-1000
• 2144-010342A	Ink pump · length 55 mm	R	-	-	-	-	x	x	x	-	-	-	-	-	1
• 6144-007385	Ink pump · length 62.5 mm	R	-	x	-	-	-	-	-	-	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

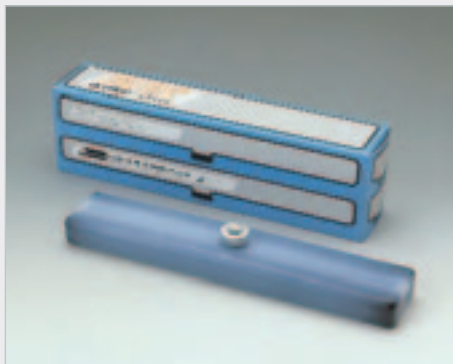


[1] 2144-010342A | [2] 6144-007385

### Ink

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100										Trackit EEG Recorder	Quantity
				EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo		
• F516	NSE-25BL	Ink · cartridge of 250 ml	S	-	-	-	-	x	x	x	-	-	-	-	2
• F515	NSE-40BL	Ink · bottle of 400 ml	S	-	x	-	-	-	-	-	-	-	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



F516



F515

# EEG: Recording Paper

Recording paper · page 66



*Fighting Disease with Electronics*



## EEG: Recording Paper

### Recording Paper

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies											Quantity				
				EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo		WEE-1000	Trackit EEG Recorder		
• NKD-345/1	FV345-30	Normal recording paper · Z-fold · 345 mm x 300 m (each page 300 mm) · 1,000 pages · vertical orange lines · with page marker and perforation (C474)	S	-	x1*	-	-	-	-	-	-	-	-	-	-	-	-	1
• NKD-400/1	FV400-30	Normal recording paper · Z-fold · 400 mm x 300 m (each page 300 mm) · 1,000 pages · vertical orange lines · with page marker and perforation (C491)	S	-	x2*	-	-	-	-	-	-	-	-	-	-	-	-	1
• NKD-300T	FQW300-30A	Thermal recording paper · Z-fold · 300 mm x 300 m (each page 300 mm) · 1,000 pages · (A428D)	S	-	-	x	-	-	-	-	-	-	-	-	-	-	-	1
• NKD-210T		Thermal recording paper · Z-fold · 210 mm x 300 m (each page 300 mm) · 1,000 pages · vertical orange lines · with page marker and perforation (A720B)	S	-	-	-	x	-	-	-	-	-	-	-	-	-	-	1
• NKD-245/1	FV245-30	Normal recording paper · Z-fold · 245 mm x 300 m (each page 300 mm) · 1,000 pages · vertical orange lines · with page marker and perforation (C452)	S	-	-	-	-	x	x	x	-	-	-	-	-	-	-	1
• C451	FV245-10	Normal recording paper · Z-fold · 245 mm x 100 m (each page 300 mm) · 333 pages · vertical orange lines · with page marker and perforation	S	-	-	-	-	x	x	x	-	-	-	-	-	-	-	1
• C810	RIW114-3	Normal recording paper · roll · 114 mm x 60 m · without grid · without page marker · without perforation	S	-	x3*	-	-	x3*	-	x3*	-	-	-	-	-	-	-	1

[X] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] for EEG-4414K, EEG-4418K

[2\*] for EEG-4421K

[3\*] for ABR unit EA-730AK, EA-430AK or EA-440AK





# EEG: Storage Media

Storage media · page 68



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## EEG: Storage Media

## Storage Media

Supply Code No.	Description	Disposable/Reusable/Supplies											Trackit EEG Recorder	Quantity		
		EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000				
• NKD-MO230	MO disk · 230 MB · 3.5" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2x300	MO disk · 600 MB (2 x 300 MB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO640	MO disk · 640 MB · 3.5" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2x600	MO disk · 1.2 GB (2 x 600 MB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO1,3	MO disk · 1.3 GB · 5.25" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO1.3F	MO disk · 1.3 GB · 3.5" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2.3F	MO disk · 2.3 GB · 3.5" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2x1,15	MO disk · 2.3 GB (2 x 1.15 GB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2x2,6	MO disk · 5.2 GB (2 x 2.6 GB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-MO2x4,55	MO disk · 9.1 GB (2 x 4.55 GB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-DVD/R4.7	DVD-RAM · 4.7 GB · 5.25" · single sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1
• NKD-DVD/R2x4.7	DVD-RAM · 9,4 GB (2 x 4.7 GB) · 5.25" · double sided	S	x1*	-	-	-	-	-	-	-	x1*	x1*	x1*	-	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies

[1\*] Depends on the MO drive or DVD recorder used!

**i** File size of a normal EEG (10-20-system, 20 min. recording) with varying sample rates:

Sample rate 200 Hz, file size ca. 13 MB

Sample rate 500 Hz, file size ca. 31 MB

Sample rate 1 kHz, file size ca. 61 MB

Caution: The above file sizes totally depend on the number of electrodes used and the exact recording time. Therefore the file sizes may vary!

# EEG: Paste and Gel

Paste and gel · page 70



*Fighting Disease with Electronics*

EEG: Paste and Gel

Paste and Gel

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity	
• F509	Z-181JE	»Elefix« electrode paste · 180 g tube · ideal for applications with surface electrodes · excellent adhesive and conductive qualities	S	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• F510	Z-401CE	»Elefix« electrode paste · 400 g cup · ideal for applications with surface electrodes · excellent adhesive and conductive qualities	S	x	x	x	x	x	x	x	x	x	x	x	x	x	1
• F010	Z-101BC	»CardioCream« ECG paste · 100 g tube	S	x	x	x	x	x	x	x	x	x	x	x	x	-	2
• F020	YZ-0019	»SkinPure« skin preparation gel · 135 g tube · reduces the electrode skin impedance	S	x	x	x	x	x	x	x	x	x	x	x	x	x	2

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



F509



F510



F010



F020

# EEG: Batteries

Batteries · page 72



*Fighting Disease with Electronics*

EEG: Batteries

Batteries

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• X231	YZ-0308	Battery · 7.2 V, 1800 mAh · lithium ion (Li-Ion) · rechargeable	R	-	-	-	-	-	-	-	-	-	-	x	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



X231

# EEG: Accessories

Accessories for ABR units · page 74

Other accessories · page 74



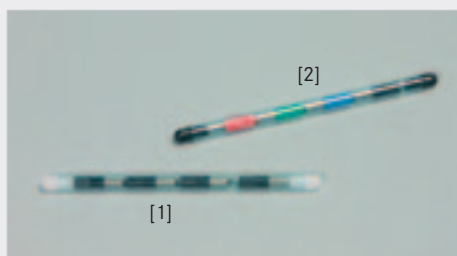
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EEG: Accessories

Accessories for ABR Units

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• M100	345734	Plotter pens · black · for ABR unit EA-730AK, EA-430AK and EA-440AK · set of 4 pens	S	-	x	-	-	x	-	x	-	-	-	-	-	1 set
• NKD-M101	275551	Plotter pens · 4 colours · for ABR unit EA-730AK, EA-430AK and EA-440AK · set of 4 pens	S	-	x	-	-	x	-	x	-	-	-	-	-	1 set

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



[1] M100 | [2] NKD-M101

Other Accessories

Supply Code No.	Article No.	Description	Disposable/Reusable/ Supplies	EEG-1100	EEG-4400	EEG-5500	EEG-5600	EEG-7300	EEG-7400	EEG-8300	EEG-9100	EEG-9200	Combo	WEE-1000	Trackit EEG Recorder	Quantity
• Y085	6144-007171	Adapter with 2 mm socket and DIN type connector (touch-proof) · to connect electrode cables with 2 mm connector to electrode junction boxes with DIN type sockets	R	x	-	x	x	-	x	-	x	x	x	x	x	1
• NKD-L936	314839B	Power cable · cable length 2.5 m	R	x	x	x	x	x	x	x	x	x	x	x	-	1

[x] = applicable, [-] = non-applicable, [D] = disposable, [R] = reusable, [S] = supplies



Y085



NKD-L936



## Warranty



### **General Warranty Regulations**

NIHON KOHDEN offers a one-year warranty for their products against material defects and functional breakdowns starting from the day of delivery.

Excluded from this warranty are consumable materials such as recorder paper, ink and batteries. NIHON KOHDEN products in which a defect occurs during this warranty period will be repaired or replaced by NIHON KOHDEN customer services or will be repaired or replaced by the authorised specialist dealer, provided that the products were used in accordance with the instructions given in the Operating Instructions.

No other persons or organisations are authorised to grant a warranty or enter into obligations for our products. NIHON KOHDEN does not recognise any other form of warranty, whether implicit or in writing.

The warranty claim expires as soon as servicing measures, technical modifications or other product changes are carried out by personnel not authorised by NIHON KOHDEN or without the explicit agreement of NIHON KOHDEN.

Furthermore, the warranty claim expires in the event of unauthorised opening of the device, of re-installation or repair by personnel not authorised by NIHON KOHDEN as well as in the event of removal of the rating plates, in the event of damage resulting from negligence, the use of force, or in the event of damage caused by fire, lightning, water, vandalism, force majeure or improper installation or use.

### **Warranty for reusable SpO<sub>2</sub> sensors**

The warranty period granted by NIHON KOHDEN for SpO<sub>2</sub> sensor materials and workmanship ends 6 months after opening the packaging, but by the latest 12 months after delivery. NIHON KOHDEN or its authorised specialist dealer will repair or replace defective sensors provided that they have been used in accordance with the Instructions for Use.

**Please also observe our General Sales, Delivery and Payment Conditions!**

**Despite the meticulous care taken in compiling the information for this Catalogue of Accessories, we cannot unfortunately rule out errors or mistakes!**



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