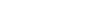


Microchip catheter program

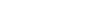
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parenchiminis kateteris

Parenchyma Measurement

Product	Version	Dimension	Article number
 NEUROVENT-ICP	ICP	5F	092 945
 NEUROVENT-P-TEMP	ICP + temperature	5F	094 268
 NEUROVENT-PTO	ICP + temperature + p _i O ₂	5F	095 008
 NEUROVENT-PTO treatment KIT	Catheter + BOLT KIT PTO + DRILL KIT CHS	5F	096 274
 NEUROVENT-TO	temperatur + p _i O ₂	5F	095 902
 NEUROVENT-TO treatment KIT	Catheter + BOLT KIT PTO + DRILL KIT CHS	5F	096 284
 NEURODUO	ICP with two measurement points	5F	094 308

Ventricular measurements

Product	Version	Dimension	Article number
 NEUROVENT	ICP + drainage, with stylet	9F	092 956
 NEUROVENT 6F	ICP + drainage	6F	094 678
 NEUROVENT-IFD-S	ICP + drainage soft internal guide wire	9I	091 678
 NEUROVENT-IFD-R	ICP + drainage rigid internal guide wire	9I	095 317
 NEUROVENT with sleeve housing (ventricular + parenchyma)	ICP + drainage, with sleeve housing ventricle drainage, ICP to the parenchyma	5F	091 576
 NEUROVENT-TEMP	ICP + drainage + temperature, with stylet	9F	094 278
 NEUROVENT-TEMP-IFD-S	ICP + drainage + temperature soft internal guide wire	9F	094 288
 NEUROVENT-TEMP-IFD-R	ICP + drainage + temperature rigid internal guide wire	9F	095 327
 NEUROVENT 3-lumens	ICP + drainage, infusion with 2 lumens	9I	094 213
 NEUROVENT 3-lumens-TEMP	ICP + temperature + drainage, infusion with 2 lumens	9I	094 274

Epidural measurements

Produkt	Version	Dimension	Article number
 NEUROVENT	ICP	6 x 1.1 mm	092 926
 NEUROVENT	ICP + temperature	6 x 1.1 mm	094 268
 NEUROVENT	ICP + temperature + p _i O ₂	6 x 1.1 mm	094 268

Technical data

Pressure measurement range	-40 to +400 mmHg (-5,3 to 53 kPa)
Upper cut-off frequency	20,000 Hz (+3 dB)
Catheter material	Polyurethan
Measurement range temperature sensor	+25 °C to +45 °C
Pressure sensitivity	5 μV/mmHg
Measurement range p _i O ₂	0-200 mmHg

*Measurement accuracy ± 2,5 mmHg p_iO₂ (for < 120 mmHg p_iO₂)

Zero point stability

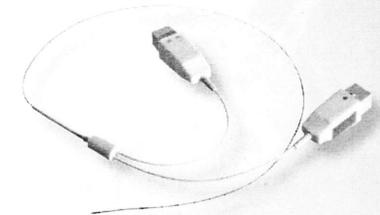
Ø Deviation after 100 hours	0,89 mmHg
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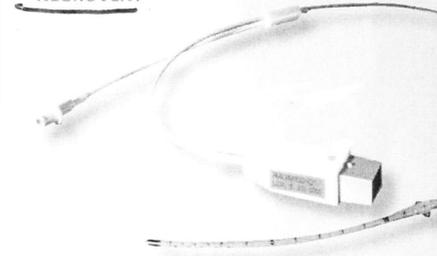


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Edvinas Lekas
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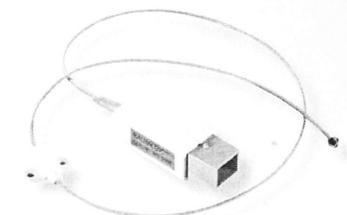
NEURODUO



NEUROVENT



NEURODUR



Accessories for transferring measurement values to the patient monitor

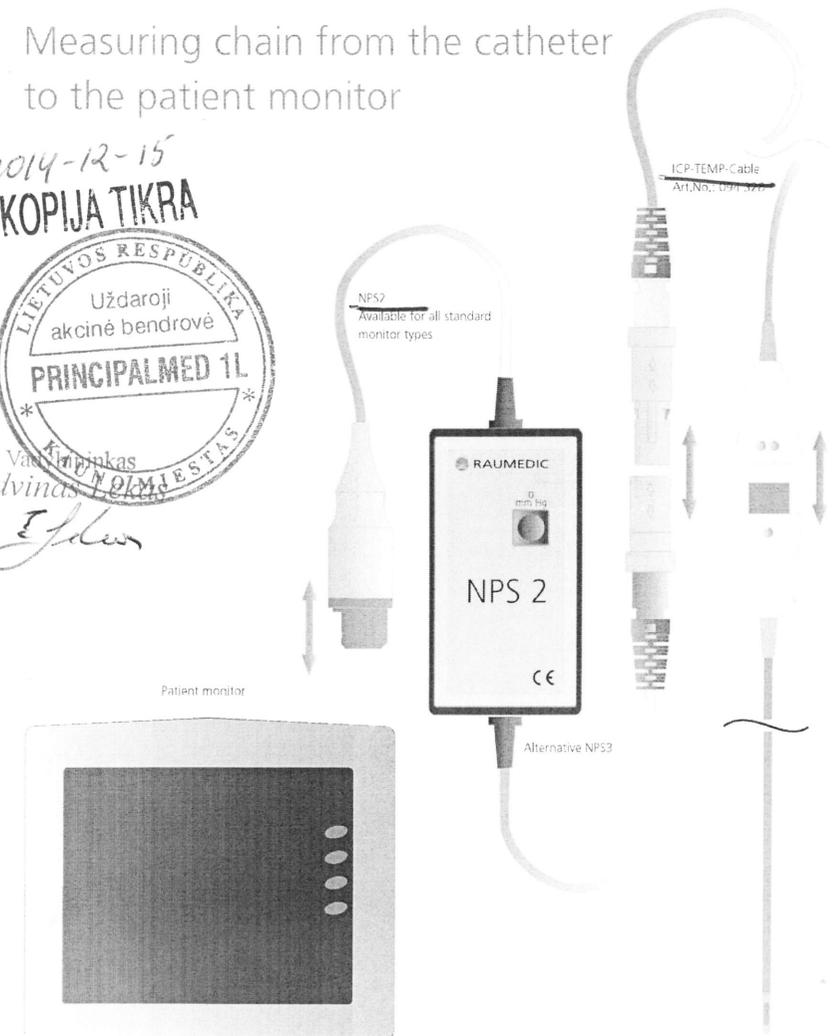
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Product	Description	Article number
ICP-TEMP-Cable	Connecting cable between ICP catheter and zero point simulator NPS2	094 328
ICP-TEMP-Adapter	Adapter between zero point simulator NPS2 and patient monitor	094 323
ICP-TEMP-Adapter Philips/HP	Adapter between zero point simulator NPS2 and patient monitor Philips/HP	094 047
NPS2 Siemens/Draeger Infinity	Adapter cable to Siemens/Draeger Infinity patient monitor	092 627
NPS2 Philips/HP	Adapter cable to Philips/HP patient monitor	092 637
NPS2 Nihon Kohden BSM 41xx	Adapter cable to Nihon Kohden BSM 41xx patient monitor	094 716
NPS2 GE/MARQUETTE	Adapter cable to GE/MARQUETTE patient monitor	093 807
NPS2 Datex Ohmeda	Adapter cable to Datex Ohmeda patient monitor	090 924
NPS2 Spacelabs	Adapter cable to Spacelabs patient monitor	091 715
NPS2 Fukuda Denshi	Adapter cable to Fukuda Denshi patient monitor	096 003

Zero point simulator NPS2 for further monitor types upon request

Measuring chain from the catheter to the patient monitor

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akcinė bendrovė
PRINCIPALMED 1L
Vadovas
Edvinas
Išleis



Clinical advantages:

- Direct connection to the patient monitor without ICP monitor
- Plug & play system – no calibration necessary
- Simple monitor change without measurement loss is possible during ICP measurement through use of zero point simulator

BOLT KIT CH9



BOLT KIT CH5



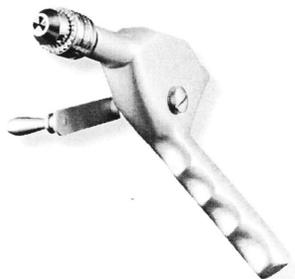
Screwing in tool



BOLT KIT components and DRILL KIT



RALK-Hand Drill, autoclavable



RAUMEDIC – BOLT KIT and DRILL KIT

Safe and functional fastening of the catheter is achieved using the BOLT KIT. Other accessories for catheter application are the RALK-Hand Drill and the DRILL KIT.

BOLT KIT components:

1. Polymer screw
2. Dura opener
3. Screwing in tool
4. Fixing cap
5. Seal

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BOLT KIT advantages:

- Suitable for all imaging methods
- Low BOLT height
- Self-cutting conical thread with sealing function

DRILL KIT components:

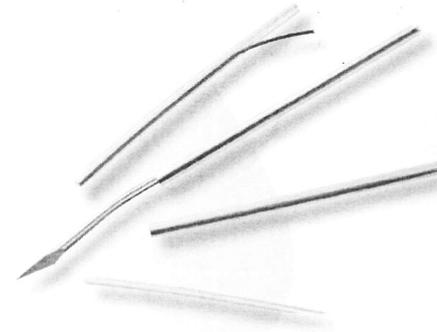
6. Drill bit with stopper
7. Allen key

Product	Packaging	Article number
BOLT KIT CH9	1 pcs / pack	091 588
DRILL KIT CH9	2 pcs / pack	091 606
BOLT KIT CH5	1 pcs / pack	091 608
DRILL KIT CH5	3 pcs / pack	091 878
RALK-Hand Drill	1 pcs / pack	231 584

RAUMEDIC – spliceable tunnelling sleeve

The spliceable tunnelling sleeve is suitable for routing the RAUMEDIC catheter and is intended for single use only.

The main advantage of the spliceable tunnelling sleeve is the contamination-free application of the catheter and its complete, trouble-free removal after fastening of the catheter.



tunelavimo priemonės

Product	Packaging	Article number
Spliceable tunnelling sleeve CH8 (for peritoneal catheters)	5 pcs / pack	090 506
Spliceable tunnelling sleeve CH12 (for ventricular catheters)	5 pcs / pack	090 717



Advantages:

- Trocar with optimised cutting geometry
- Atraumatic adaptation of the tip for low resistance application
- Spliceable tunnelling sleeve from biocompatible, polymer material in its initial state
- Colour tear-off strip for clear use



RAUMEDIC®

— Lifeline to Health —

2014-12-15
KOPIJA TIKRA

RAUMEDIC AG · Postfach 5 01 · 95205 Münchberg

PRINCIPALMED 1L JSC
Gedimino st. 47
LT – 44242 Kaunas
Lithuania



Vadybininkas
Edvinas Lekas
[Signature]

RAUMEDIC AG

Postfach 5 01
95205 Münchberg
Telefon: +49 9252 359- 0
Telefax: +49 9252 35951- 2969
info@RAUMEDIC.com
www.RAUMEDIC.com

Lieferadresse / Shipping Address:
Hermann-Staudinger-Straße 2
95233 Helmbrechts
DEUTSCHLAND

Katja.Meixner@RAUMEDIC.com

Ihre Nachricht vom
Ihre Zeichen

Sachbearbeiter K. Meixner
Unsere Zeichen Mek

Direktkontakt +49 9252 359- 2969
Datum 12.12.2014

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RAUMEDIC parameters NEUROVENT-P
Connection directly among other to the Philips-IntelliVue MP30/50 patient monitor, no additional monitor necessary
No catheter calibration
Set is sterile, disposable
ICP-measurement in the parenchyma
Set includes: Catheter + tunneling sleeve
Titanium housing (microchip in a shell made of titan)
Outer diameter of the catheter: 5F (= 1,65mm)
Length of wire: 58 cm (we offer an additional 2m extension cable from the catheter/patient to the patient monitor)
Direct connection with an interface cable
Catheter material: Polyurethane
Interval of the pressure: from -40 up to +400 mmHg
Upper cut-off frequency: 20,000 Hz (-3 dB)
Pressure sensitivity: 5 µV/V/mmHg
Temperature co-efficient of sensitivity: max. 0,25% of the measured value/°Celsius
Centimeter Scale with lines and numbers at the tip of the catheter

Sincerely Yours
RAUMEDIC AG

Katja Meixner

i.A. Katja Meixner
Product Manager
Business Unit Assembly/Catheters



RAUMEDIC AG
95205 Münchberg

Vertrieb: Markt-Rover
Autorenstraße 17, 95205 Münchberg

Vertimas iš anglų kalbos



35 por.

RAUMEDIC parametrai NEUROVENT-P
Prijungimas tiesiogiai prie kitų pacientų monitorių, tarp kurių Philips-IntelliVue MP30/50, nereikia papildomo monitoriaus
Nereikia kalibruoti kateterio
Rinkinys sterilus, vienkartinio naudojimo
Parenchiminiam ICP matavimui
Rinkinį sudaro: kateteris ir tuneliavimo priemonės
Titaninis apvalkalas (mikroschema titano apvalkale)
Išorinis kateterio diametras: 5F (=1,65 mm)
58 cm ilgio laidas (papildomai siūlome 2 m prailginimo kabelį nuo kateterio/paciento iki paciento monitoriaus)
Tiesioginis prijungimas per sąsajos kabelį
Kateterio medžiaga: poliuretanas
Slėgio intervalas: nuo -40 iki + 400mmHg
Viršutinio filtro nupjovimo dažnis: 20,000 Hz (-3dB)
Slėgio jautrumas: 5 μ V/V/mmHg
Jautrumo temperatūros koeficientas: maks. 0,25% matuojamos reikšmės/ $^{\circ}$ C
Kateterio galiukas su centimetrine skale, su linijomis ir skaičiais

Pagarbiai,
RAUMEDIC AG

parašas
Katja Meixner



Vadybininkas
Edvinas Lekas