

Hemodynamics



Vascular Systems

B|BRAUN
SHARING EXPERTISE

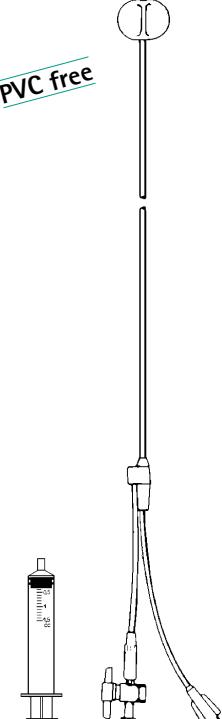
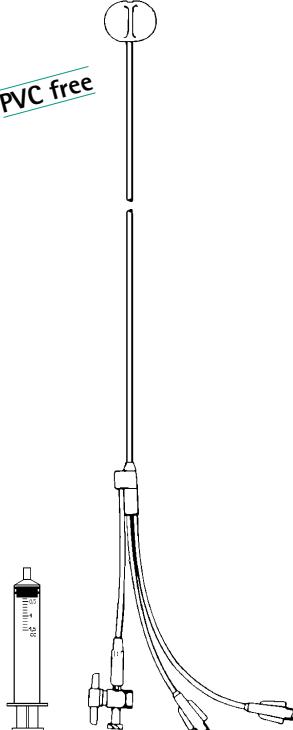
Vascular Systems

Products for minimal-invasive diagnostics and therapy

Product field	Product group	Product	Page
Balloon floatation catheters for measurement of haemodynamic pressure and cardiac output	Corodyn	Corodyn P1 Corodyn P2 Corodyn TD Corodyn TD-I Corodyn TD touch-free Corodyn TD-I touch-free Corodyn accessories Corodyn technical data Eledyn stimulation probe Add-ON set for Eledyn Eledyn 2	4 4 5 5 6 6 7 8 9 9 10
Monitoring kits with disposable transducer for physiological pressure measurement	Combitrans®	Combitrans® Monitoring kits Combidyn® pressure tubing with three-way stopcock Exadyn-Combitrans® Monitoring kits Exadyn-Combitrans® PVC-free Combitrans® Monitoring kit "Fixation tape" Combitrans® Monitoring double kit Combitrans® Monitoring triple kit Combitrans® disposable transducer Combitrans® / Intrafix M Haemofix®-Combitrans® Monitoring kit Haemofix®-Exadyn Monitoring kit Haemofix®-Combitrans® Monitoring kit double Haemofix® accessories Combitrans® attachment plates Combitrans® Easy Click Exadyn-Combitrans® Easy Click Combitrans® EC Special Combitrans® EC	11 11 12 12 13 14 14 15 15 16 16 16 16 16 17 18 19 20 21
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Pressure tubing for physiological pressure measurement	Combidyn®	Combidyn® PVC Tubings Combidyn® Polyethylene Tubings	24 25
Catheter introducer sheaths for Seldinger technique	Intradyn®	Intradyn® venous Intradyn® Special Basic Intensive Care Kit Intradyn® Special Complete Intensive Care Kit Intradyn® accessories Intradyn® Tear-Away	26 27 28 29 30
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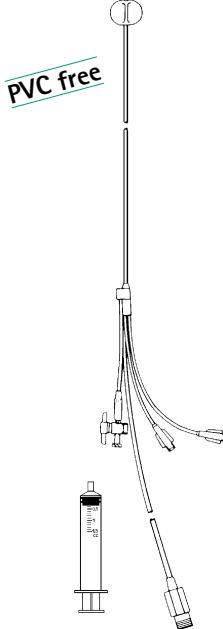
Corodyn P1/P2

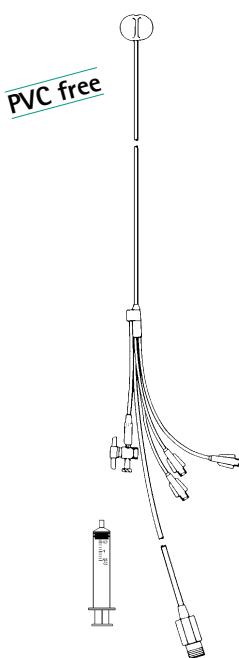
Balloon floatation catheters made of Polyurethane (PUR)

	Corodyn P1/P2	Code-Number	Sales unit-pcs.
	<p>Corodyn P1</p> <p>Balloon floatation catheter with distal lumen</p> <ul style="list-style-type: none">- made of PUR- antithrombogenic material- free of toxic plasticizers		
	F5	5011590	5
	F6	5011698	5
	F7	5011795	5
	<p>Corodyn P2</p> <p>Balloon floatation catheter with two lumina for simultaneous pressure measurement and application of infusions or medications</p> <ul style="list-style-type: none">- made of PUR- antithrombogenic material- free of toxic plasticizers- distance between exit port and catheter tip 20 cm		
	F7	5021740	5

Corodyn TD / TD-I

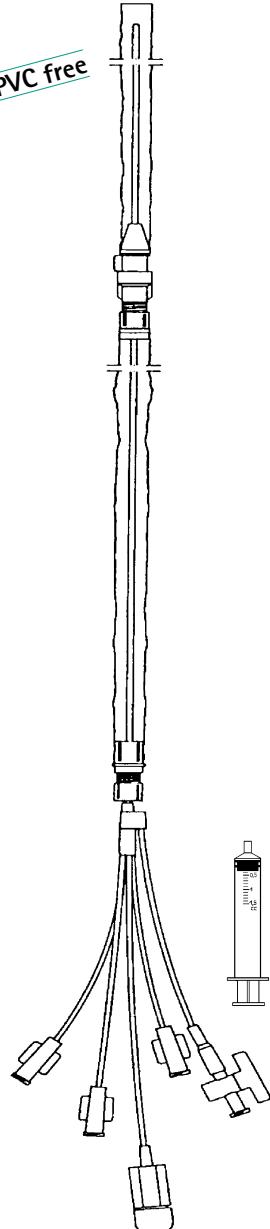
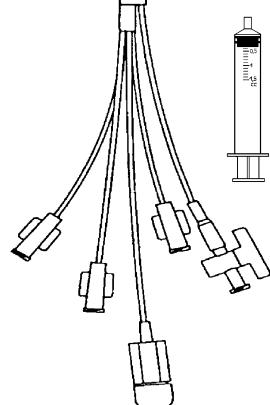
Thermodilution catheters with balloon made of Polyurethane (PUR)

	Corodyn TD	Code-Number	Sales unit-pcs.
	<p>Thermodilution catheter with balloon for measurement of haemodynamic pressure and cardiac output</p> <ul style="list-style-type: none"> - catheter (4 lumina) with lumen for injection of a cold bolus and distal lumen for pressure measurement - catheter length 110 cm - thermistor, 35 mm from catheter tip - catheter marking every 100 mm from the catheter tip as an indicator of depth of introduction and position of catheter - easy handling - safe introduction - radio-opaque - excellent pressure transmission - thermistor resistance at 37°C 14,000 Ω ± 15 %, sensitivity 520 Ω/°C - special three-pin plug connector for all standard computers and patient monitors - made of PUR - antithrombogenic material - free of toxic plasticizers 		
Corodyn TD			
F5	5041406	5	
F6	5041414	5	
F7	5041422	5	
F7, S-Tip	5041945	5	

	Corodyn TD-I		
	Thermodilution catheter with 5 lumina		
	- same catheters as Corodyn TD but with additional lumen for simultaneous pressure measurement resp. for the application of infusions or medications		
Corodyn TD-I			
PUR, F 7,5	5041856	5	

Corodyn touch-free

Thermodilution catheters with balloon made of Polyurethane (PUR)

	Corodyn TD touch-free	Code-Number	Sales unit-pcs.
 PVC free	<p>Thermodilution catheter with balloon for measurement of haemodynamic pressure and cardiac output</p> <p>Catheter with touch-free contamination guard</p> <ul style="list-style-type: none">- catheter contamination guard (110 cm)- test chamber- special connection of the contamination guard to the sheath <p>Corodyn TD catheter</p> <ul style="list-style-type: none">- catheter (4 lumina) with lumen for injection of a cold bolus and distal lumen for pressure measurement- catheter length 110 cm- thermistor, 35 mm from catheter tip- catheter marking every 100 mm from the catheter tip as an indicator of depth of introduction and position of catheter- easy handling- insertion- radio-opaque- excellent pressure transmission- thermistor resistance at 37 °C 14,000 Ω ± 15 %, sensitivity 520 Ω/°C- special three-pin plug connector for all standard computers and patient monitors- made of PUR- antithrombogenic material- free of toxic plasticizers <p>Corodyn TD touch-free</p>		
F7		5040035	5
	<p>Corodyn TD-I touch-free</p> <p>Thermodilution catheter with 5 lumina</p> <ul style="list-style-type: none">- same catheter as Corodyn TD but with additional lumen for simultaneous pressure measurement resp. for the application of infusions and medications <p>Corodyn TD-I touch-free</p>		
F7.5		5040043	5

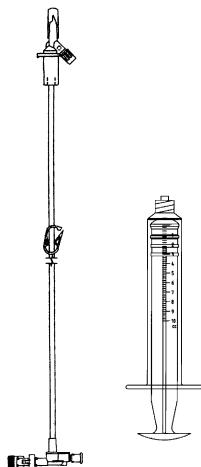
Corodyn

Accessories

		Code- Number	Sales unit-pcs.
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Closed Injectate Delivery System for measurement of cardiac output by thermodilution

- simplification of the cardiac output measurement
- contamination guard provides a closed system



CO-Kit

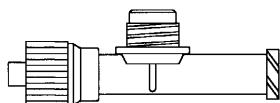
Closed Injectate Delivery System to measure the cardiac output with room temperature injectate

- Multi Add tubing system
- dual-check-valve
- syringe, 10 ml
- three-way-stopcock

CO-Kit

5040011

25



In-line temperature probe

For in-line injectate temperature sensing at catheter injection site, sterile

- with screw connection
- with snap lock

with screw connection

5040086

25

with snap lock

5040088

25

Corodyn

Balloon floatation catheters Technical data

Catheter	French size	B. Braun Introducer	Length	Maximum Balloon Capacity	Inflated Balloon Diameter	Recommended Guide wire	Distance between Exit Port and Tip	Inner Diameter of Distal Opening
Corodyn P1	F5	F5	110 cm	0.75 cm ³	8 mm	0.025"		0.025"
	F6	F6	110 cm	1.25 cm ³	10 mm	0.025"		0.030"
	F7	F7	110 cm	1.50 cm ³	12 mm	0.038"		0.039"
Corodyn P2	F7	F7	110 cm	1.50 cm ³	12 mm	0.018"	20 cm	0.019"

Catheter	French size	B. Braun Introducer	Length	Maximum Balloon Capacity	Inflated Balloon Diameter	Recommended Guide wire	Distance betw. Injection Lumen and Tip	Distance betw. Infusion Lumen and Tip	Distance Thermistor cm	Inner Diameter of Distal Opening
Corodyn TD	F5	F5	110 cm	0.75 cm ³	8 mm	0.018"	29 cm		3.5	0.019"
	F6	F6	110 cm	1.25 cm ³	10 mm	0.025"	29 cm		3.5	0.025"
	F7	F7	110 cm	1.50 cm ³	12 mm	0.025"	29 cm		3.5	0.030"
Corodyn TD-I	F7,5	F8	110 cm	1.50 cm ³	12 mm	0.025"	29 cm	31 cm	3.5	0.030"

Length marking every 100 mm from the catheter tip.

Catheter computation constants

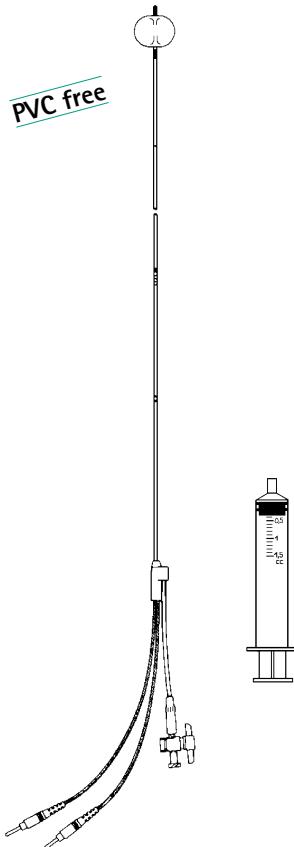
Injectate Temperature (°C)		0 °C - 5 °C			23 °C - 25 °C		
Injectate Volume (cm ³) (VI)		3	5	10	3	5	10
Computation constants (k)	5 FR., 100 cm	0.144	0.239	0.481	0.146	0.246	0.489
	6 FR, 100 cm	0.158	0.268	0.547	0.163	0.277	0.558
	7 FR, 110 cm	0.160	0.274	0.561	0.162	0.278	0.558
	7.5 F, 110 cm	0.160	0.274	0.561	0.162	0.278	0.558
	8 F, 110 cm	0.160	0.274	0.561	0.162	0.278	0.558

$$k = \frac{(1.08)(C_p)60(V)}{1000}$$

Eledyn

Bipolar temporary balloon probe for anaesthesia and intensive care

	Eledyn	Code-Number	Sales unit-pcs.
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Bipolar temporary balloon probe for transvenous heart stimulation

- excellent push and flexibility
- catheter material: antithrombogenic Polyurethane (PUR), free of toxic plasticizers
- the use of stainless steel for electrode rings and wires avoids formation of galvanic elements
- stainless steel, gold-plated 2 mm pins

■ **stimulation probe 110 cm**

- catheter marking every 100 mm from tip of the probe as an indicator of depth of introduction and position of the probe
- bipolar

■ **electrodes**

- electrode length 3 mm
- electrode distance 10 mm
- torque stability due to material and design
- radio-opaque

■ **with floatation balloon**

- **Omnifix® Lock**
- disposable syringe
 - with plunger stop for exact volume of air / CO₂ for balloon inflation
 - for connection to balloon lumen with stopcock

Eledyn stimulation probe with balloon F5

5101506

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Add-ON kit for Eledyn 2/F6 and Eledyn F5 EB10

- 1 Contamination guard
- 4 Gauze pads 10 x 10cm, 8 plies
- 1 Cutfix scalpel Fig. E11
- 1 Seldinger puncture needle 1.3 x 70 mm, light pink
- 1 Guide wire J3 SFU70-035 in dispenser and with a straightener
- 1 Intradyn® venous hemostasis introducer F6 with a blue stop cock, two closing cones and one protection cover.

Add-ON set for Eledyn 2/F6 and Eledyn F5 EB10

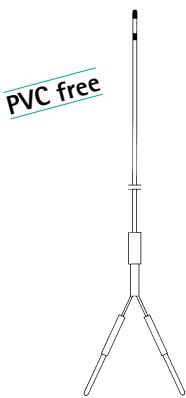
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Eledyn 2/FX

Bipolar temporary stimulation probe for anaesthesia,
intensive care and electrophysiology

	Eledyn 2/FX	Code- Number	Sales unit-pcs.
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Bipolar temporary stimulation probes for transvenous heart stimulation and electrophysiology

- radiopaque catheter body
- made of antithrombogenic Polyurethane
- free of toxic plasticizers
- length markings in step of 10 cm
- touch protected connectors
- color coded hub for easy identification of catheter sizes

Technical data

- electrode distance: 10 mm
- material: stainless steel
- effective length: 112 cm
- catheter material: Polyurethane, radio-opaque
- resistance: < 60 Ω
- plug: 2 mm stainless steel

Eledyn 2/F4

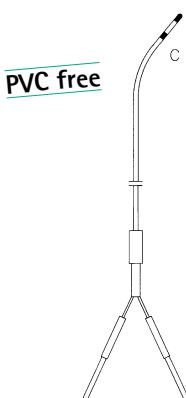
Eledyn 2/F4 - straight	5151503	5
Eledyn 2/F4 - C	5151520	5

Eletrode surface: ring 12 mm²

Eledyn 2/F5

Eledyn 2/F5 - straight	5151538	5
Eledyn 2/F5 - C	5151554	5

Eletrode surface: ring 15 mm²



Eledyn 2/F6

Eledyn 2/F6 - straight	5151562	5
Eledyn 2/F6 - C	5151589	5

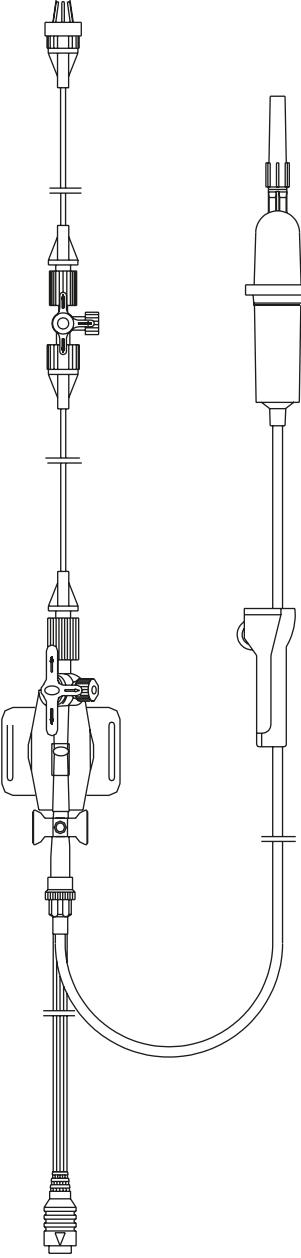
Eletrode surface: ring 19 mm²

All Eledyn F4 an F5 probes include a peel-away cannula and a connectable Hemostop venous.

Recommended introducer for F6 probes:
Tear-Away introducer sheath F6

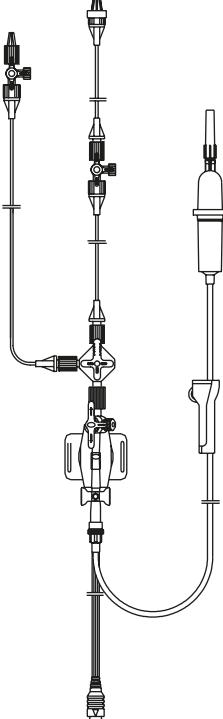
Combitrans®

Monitoring kits with disposable transducer Basic kits

	Combitrans®	Code-Number	Sales unit-pcs.												
	<p>Monitoring kit with disposable transducer for physiological pressure measurement</p> <p>Complete system</p> <ul style="list-style-type: none"> - for high transmission of pressure signal - time reducing - avoids contamination at connections and during blood sampling <p>Combitrans® Monitoring kit</p> <ul style="list-style-type: none"> ▪ Intrafix M - special administration kit for pressure measurement ▪ Combitrans® flush device - quick flush rate $\geq 1 \text{ ml/s}$ - continuous flush rate 3 ml/h at 300 mmHg ▪ Combitrans® disposable transducer - compact and 100 % tested unit with excellent pressure transmission - can be used in combination with all CF-class monitors - adapts to interface cable with plug connection - modern chip technology for an accurate registration of values - precalibrated sensor with constant electrical parameters (sensitivity, linearity, zero stability) - straight fluid channel for an easy air-bubble free filling ▪ Discofix-3 - 2 three-way stopcocks red (arterial), blue (venous) or yellow (pulmonary arterial) ▪ Combidyn® pressure tubing 125 cm - $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$ - with red (arterial), blue (venous) or yellow (pulmonary arterial) stripe ▪ Combidyn® pressure tubing 20 cm - $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$ - with red (arterial) stripe, blue (venous) or yellow (pulmonary arterial) stripe <p>Combitrans® Monitoring kit</p> <table> <tbody> <tr> <td>red (arterial)</td> <td>5202620</td> <td>20</td> </tr> <tr> <td>blue (venous)</td> <td>5202604</td> <td>20</td> </tr> <tr> <td>yellow (pulmonary arterial)</td> <td>5202617</td> <td>20</td> </tr> </tbody> </table> <p>Combidyn® pressure tubing with three-way stopcock</p> <ul style="list-style-type: none"> - pressure tubing, red, $\varnothing 1.5 \text{ mm} \times \varnothing 2.7 \text{ mm}$, 20 cm - connected three-way stopcock, red <table> <tbody> <tr> <td>Combidyn® pressure tubing with three-way stopcock</td> <td>5208599</td> <td>50</td> </tr> </tbody> </table>	red (arterial)	5202620	20	blue (venous)	5202604	20	yellow (pulmonary arterial)	5202617	20	Combidyn® pressure tubing with three-way stopcock	5208599	50		
red (arterial)	5202620	20													
blue (venous)	5202604	20													
yellow (pulmonary arterial)	5202617	20													
Combidyn® pressure tubing with three-way stopcock	5208599	50													

Exadyn-Combitrans®

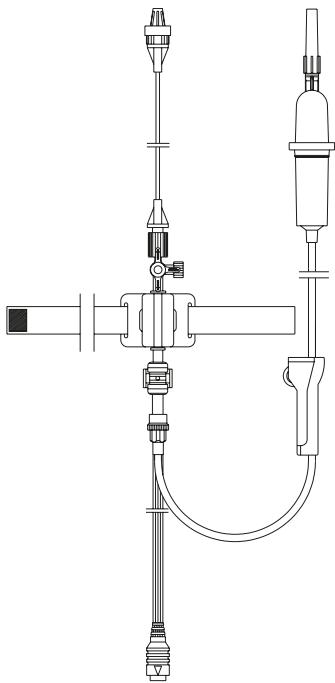
Monitoring kits with disposable transducer

	Exadyn-Combitrans®	Code-Number	Sales unit-pcs.
	<p>Monitoring kit with disposable transducer for measurement of arterial pressure and CVP (central venous pressure)</p> <p>Complete system</p> <ul style="list-style-type: none"> - for optimal transmission of pressure signal - time reducing <p>Exadyn-Combitrans® Monitoring kit</p> <ul style="list-style-type: none"> ▪ Intrafix M - special administration kit for pressure measurement ▪ Combitrans® flush device - quick flush rate $\geq 1 \text{ ml/s}$ - continuous flush rate 3 ml/h at 300 mmHg ▪ Combitrans® disposable transducer - compact and 100 % tested unit with excellent pressure transmission - can be used in combination with all CF-class monitors - adapts to interface cable with plug connection - modern chip technology for an accurate registration of values - precalibrated sensor with constant electrical parameters (sensitivity, linearity, zero stability) - straight fluid channel for an easy air-bubble free filling ▪ Discofix-3 - 2 three-way stopcocks red handle (arterial) - 1 three-way stopcock blue handle (venous) ▪ Combidyn® pressure tubing 125 cm - $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$ - with red (arterial) or blue (venous) stripe ▪ Combidyn® pressure tubing 20 cm - $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$ - with red (arterial) stripe ▪ Exadyn special 90° stopcock - 90° two-way safety stopcock for switch between arterial and venous measurement - no shunts possible 	5202507	20
PVC free	Exadyn-Combitrans® Monitoring kit PVC-free Monitoring kit with disposable transducer for measurement of arterial pressure and CVP - same configuration as above, however, all components PVC-free for active environmental protection	5212391	20
	Exadyn-Combitrans® Monitoring kit long tubings Monitoring kit with disposable transducer and long tubings for measurement of arterial pressure and CVP - same configuration as above, but with 200 cm long tubings instead of 125 cm	5206994	20

Combitrans® Special

Monitoring kits with disposable transducer Customized kit solutions

		Code-Number	Sales unit-pcs.
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Create your individual Combitrans® monitoring kit for invasive pressure measurement

Individual and user-friendly solutions are combined with economical and ecological advantages:

1. Service through sales representative:

Demand analysis - kit proposal - sample and individual kit configuration according to your requirements - offer

2. Customized and user-friendly:

Your made-to-order solution out of our large B. Braun range - reduction of preparation time - designed and packaged due to customer specification - one order number

3. Economical:

Standardization of work practices - relief of clinic personnel - easy material management - less money tight up for storage - less administration

4. Ecological:

Reduced packaging volume and waste - easy disposal

Components:

- Intrafix „M“ special administration kit 150 cm
- Combitrans® flush device 3ml/h
- Combitrans® disposable transducer
- Discofix three-way stopcock, red
- Discofix three-way stopcock, white
- Combidyn® pressure tubing, red, 1.5 x 2.7 x 300 mm
- fixation tape 1.5 cm x 40 cm, velcro

Combitrans® Monitoring Kit „Fixation tape“

Monitoring kit to fix the transducer at the patient's arm.

High pressure transmission due to short pressure tubing

- easy patient care, especially in intensive care units due to a short and direct connection between transducer and puncture site
- high transmission of pressure signal
- less dead volume in the pressure tubing
- less tubing in working area

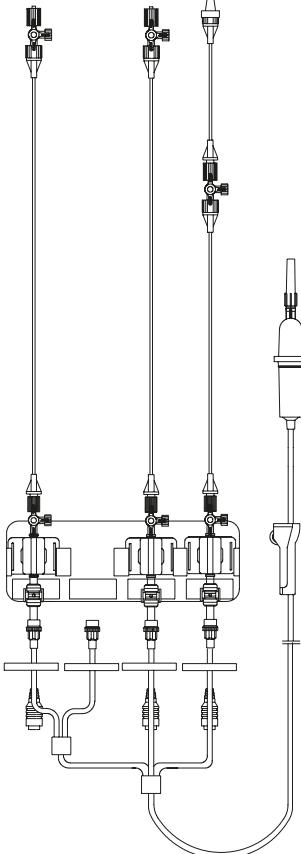
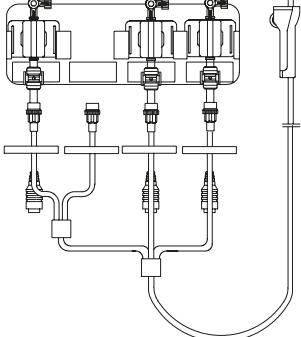
Combitrans® Monitoring Kit "fixation tape"

5216200

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Combitrans® Special

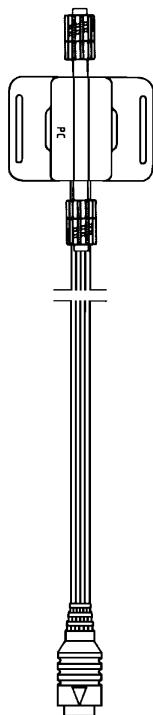
Monitoring kits with disposable transducer Customized kit solutions

		Code- Number	Sales unit-pcs.
	Combitrans® Monitoring Double Kit (without illustration) - Intrafix special administration kit, double - two Combitrans® disposable transducers with flush device 3 ml/h and Discofix three-way stopcock (red and blue) - two Combidyn® pressure tubing 125 cm (red and blue) - two Discofix three-way stopcocks (red and blue) - Combidyn® 20 cm red as arterial extention		
	Combitrans® Monitoring Double Kit (without illustration)		
without attachment plate		5201152	20
with attachment plate		5200830	20
	Combitrans® Monitoring Triple Kit (without illustration) Same as Combitrans® monitoring double kit but with - Intrafix special administration kit, triple - additional Combitrans® disposable transducer with flush system and Discofix three-way stopcock yellow - Combidyn® pressure tubing 125 cm yellow connected with Discofix three-way stopcock yellow - mounted on a quadruple plate		
	Combitrans® Monitoring triple kit (without illustration)		
		5200849	20

Combitrans®/Intrafix M

Disposable transducer/Infusion device

	Combitrans®	Code-Number	Sales unit-pcs.
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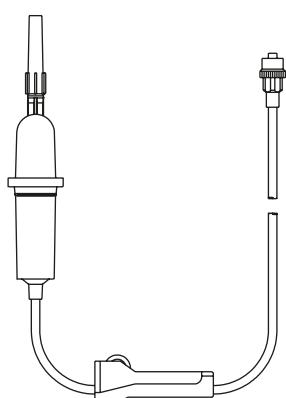


Disposable transducer for physiological pressure measurement
– compact unit with excellent pressure transmission
– can be used in combination with all CF-class monitors
– adapts to interface cable with plug connection
– modern chip technology for an accurate registration of values
– precalibrated sensor with constant electrical parameters
(sensitivity, linearity, zero stability)
– straight fluid channel for an easy air-bubble free filling

Combitrans® disposable transducer

5203660

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Intrafix M

– special administration kit for pressure measurements
– plastic spike in accordance with ISO
– dropper in accordance with DIN 58362-1, 20 drops = 1 ml \pm 0.1
– flexible lower section of drip chamber permits rapid adjustment of fluid level
– 15 µm fluid filter in accordance with DIN 58362/1
– tubing length approx. 150 cm
– roller clamp
– lock-fitting

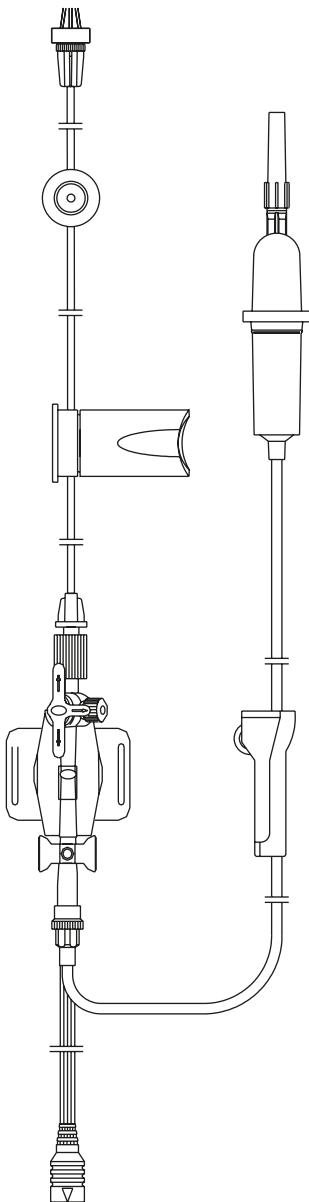
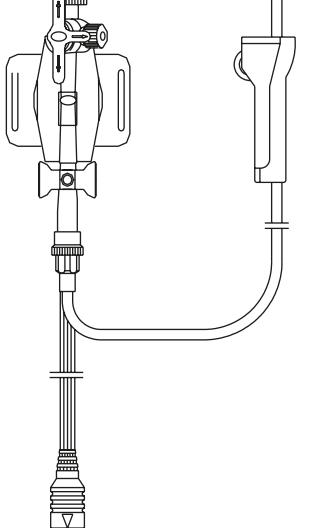
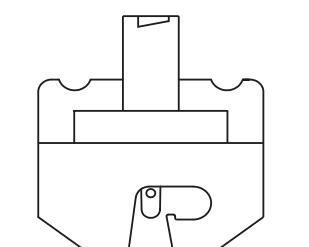
Intrafix M

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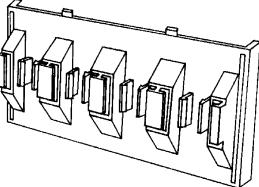
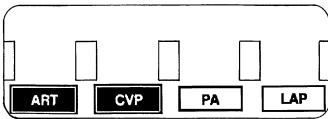
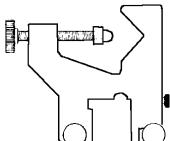
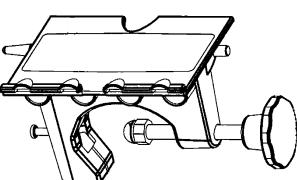
Haemofix®-Combitrans®

Monitoring kit with disposable transducer for closed blood-sampling

	Haemofix®-Combitrans®	Code-Number	Sales unit-pcs.
	<p>Monitoring kit with disposable transducer for physiological pressure measurement and closed blood sampling</p> <p>Complete System</p> <ul style="list-style-type: none"> - integrated reservoir and port for closed blood sampling - high accuracy for blood gas analysis and low risk of contamination is achieved with minimum blood waste - time reducing <p>Haemofix®-Combitrans® Monitoring Kit</p> <ul style="list-style-type: none"> - Intrafix „M“ administration kit - Combitrans® flush device 3ml/h - Combitrans® disposable transducer - Discofix three-way stopcock, red - Combidyn® pressure tubing 1.5 x 2.7 x 1800 mm red with integrated Haemofix® reservoir 5 ml (20 cm prior to transducer) and blood sampling port (30 cm prior to distal end) 	5213505	20
	<p>Haemofix®-Exadyn Monitoring Kit (without illustration)</p> <p>Same configuration as 5213505 but with the option to switch between arterial pressure and CVP.</p> <p>Additional components:</p> <ul style="list-style-type: none"> - Exadyn special 90° stopcock - Combidyn® pressure tubing 1.5 x 2.7 x 1500 mm, blue - Discofix three-way stopcock, blue 	5213516	20
	<p>Haemofix®-Combitrans® Monitoring Kit double (without illustration)</p> <p>Same configuration as 5213505 but with a second venous line, which allows the simultaneous measurement of two pressures.</p> <p>Additional components:</p> <ul style="list-style-type: none"> - Combitrans® disposable transducer with flush device 3ml/h and Discofix three-way stopcock blue - Combidyn® pressure tubing 1.5 x 2.7 x 1500 mm, blue - Discofix three-way stopcock, blue 	5213527	20
	<p>Blood sampling adapter</p> <ul style="list-style-type: none"> - for needle-free blood sampling with blunt, concealed cannula - single, sterile packaging - Luer Lock 	5213940	70

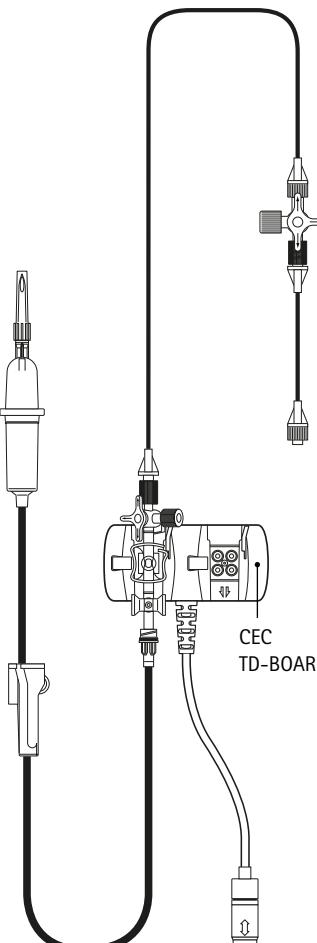
Combitrans®

Attachment plates/Accessories

		Code- Number	Sales unit-pcs.
	Combitrans® attachment plate for Siemens SC 9000 – exchange plate for integration into the Hemo-module of the patient monitor Siemens SC 9000 – for four Combitrans® disposable transducers	Combitrans® attachment plate for Siemens SC 9000	5208741 1
	Combitrans® attachment plate – for vertical attachment to infusion stand	Combitrans® attachment plate, quadruple	5203597 1
		Combitrans® attachment plate, double	5214696 1
	Combi-holder for Combitrans® attachment plate – for attachment to infusion stand	Combi-holder for Combitrans® attachment plate	4086007 1
	Attachment plate quadruple – special designed for the ICU (Intensive Care Unit) – click and go mechanism	Combitrans® attachment plate ICU quadruple	5215700 1
	Attachment plate double – special designed for Exadyn Kits – click and go mechanism	Combitrans® attachment plate Exadyn double	5215600 1
	Attachment plate holder – click and go mechanism – cable preservation – mountable in different positions	Combitrans® attachment plate holder	5215800 1

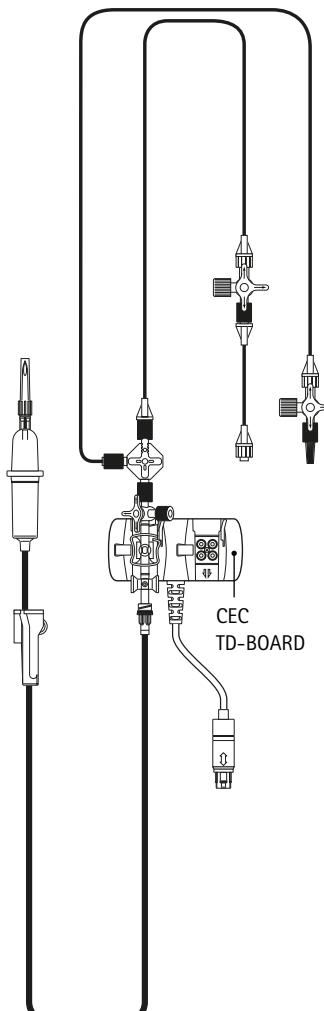
Combitrans® Easy Click

Monitoring kits with disposable transducer Basic kits

	Combitrans® EC	Code-Number	Sales unit-pcs.			
 <p>Complete system</p> <ul style="list-style-type: none">- for high transmission of pressure signal- Easy click design- time reducing- avoids contamination at connections and during blood sampling <p>Combitrans® EC Monitoring Kit</p> <ul style="list-style-type: none">▪ Intrafix® M<ul style="list-style-type: none">- special giving kit for pressure measurement▪ Combitrans® flush device<ul style="list-style-type: none">- quick flush rate $\geq 1 \text{ ml/s}$- continuous flush rate 3 ml/h at 300 mmHg▪ Combitrans® EC disposable transducer<ul style="list-style-type: none">- compact and 100 % tested unit with excellent pressure transmission- can be used in combination with all CF-class monitors- modern chip technology for an accurate registration of values (sensitivity, linearity, zero stability)- straight fluid channel for an easy air-bubble free filling- cableless transducer subassembly▪ Discofix®-3<ul style="list-style-type: none">- 2 three-way stopcocks red (arterial), blue (venous) or yellow (pulmonary arterial)▪ Combidyn® pressure tube 125 cm<ul style="list-style-type: none">- $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$- with red (arterial), blue (venous) or yellow (pulmonary arterial) stripe▪ Combidyn® pressure tube 20 cm<ul style="list-style-type: none">- $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$- with red (arterial) stripe, blue (venous) or yellow (pulmonary arterial) stripe <p>Combitrans® EC Monitoring Kit</p> <table><tbody><tr><td>red (arterial)</td><td>5319289</td><td>20</td></tr><tr><td>blue (venous)</td><td>5319290</td><td>20</td></tr></tbody></table>	red (arterial)	5319289	20	blue (venous)	5319290	20
red (arterial)	5319289	20				
blue (venous)	5319290	20				

Exadyn-Combitrans® Easy Click

Monitoring sets with disposable transducer

	Exadyn-Combitrans® EC	Code-Number	Sales unit-pcs.
	<p>Monitoring kit with disposable transducer for measurement of arterial pressure and CVP</p> <p>Complete system</p> <ul style="list-style-type: none">- for high transmission of pressure signal- time reducing <p>Exadyn-Combitrans® EC Monitoring kit</p> <ul style="list-style-type: none">▪ Intrafix® M<ul style="list-style-type: none">- special giving kit for pressure measurement▪ Combitrans® flush device<ul style="list-style-type: none">- quick flush rate $\geq 1 \text{ ml/s}$- continuous flush rate 3 ml/h at 300 mmHg▪ Combitrans® EC disposable transducer<ul style="list-style-type: none">- compact and 100 % tested unit with excellent pressure transmission- can be used in combination with all CF-class monitors- modern chip technology for an accurate registration of values (sensitivity, linearity, zero stability)- precalibrated sensor with constant electrical parameters- straight fluid channel for an easy air-bubble free filling- cableless transducer subassembly▪ Discofix®-3<ul style="list-style-type: none">- 2 three-way stopcocks red handle (arterial)- 1 three-way stopcock blue handle (venous)▪ Combidyn® pressure tube 125 cm<ul style="list-style-type: none">- $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$- with red (arterial) or blue (venous) stripe▪ Combidyn® pressure tube 20 cm<ul style="list-style-type: none">- $\varnothing 1.5 \times \varnothing 2.7 \text{ mm}$- with red (arterial) stripe▪ Exadyn special 90° stopcock<ul style="list-style-type: none">- 90° two-way safety stopcock for switch over between arterial and venous measurement <p>EXADYN-Combitrans® EC Monitoring Kit</p> <p>Combitrans® EC Exadyn Monitoring Kit (arterial + venous pressure)</p>	5318575	20

Combitrans® EC Special

Monitoring kit with disposable transducer

		Code- Number	Sales unit-pcs.
	Combitrans® EC Monitoring Double Kit – Intrafix® special giving kit, double – two CombitransEC disposable transducer assemblies with flush device 3 ml/h and Discofix® three-way stopcock (red and blue) – two Combidyn® pressure tubes 150 cm (red and blue) – two Discofix® three-way stopcocks (red and blue) – Combidyn® 20 cm red as arterial extention		
	Combitrans® EC Monitoring double kit – red/blue	5318762	20
	Combitrans® EC Monitoring Triple Kit (no illustration) Same as Combitrans® EC monitoring double kit but with – Intrafix® special giving kit, triple – additional Combitrans® disposable transducer with flush system and Discofix® three-way stopcock yellow – Combidyn® pressure tube 125 cm yellow		
	Combitrans® EC Monitoring triple kit – red/blue/yellow	5318768	20
	Combitrans® EC Monitoring Set 3 Plus Same as Combitrans® EC monitoring double set but with – Intrafix special giving set, quadruple, for additional transducer – 3 Combitrans® disposable transducers with flush device 3ml/h and Discofix® three-way stopcock (red, blue and white) – 3 Combidyn® pressure tubes 200 cm (red, blue)		
	Combitrans® EC Monitoring triple plus kit – red/blue/yellow	5318766	20
	Combitrans® EC Monitoring Kit Add-On Additional set for Monitoring Kit 2 Plus and 3 Plus – Combitrans® disposable transducer with flush device 3ml/h – Discofix® three-way stopcock white – Combidyn® pressure tubing 125 cm transparent		
	Combitrans® EC Monitoring single kit ADD ON	5318776	20

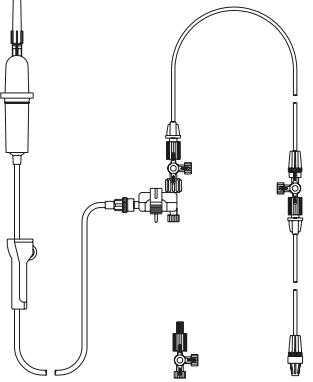
Combitrans® EC

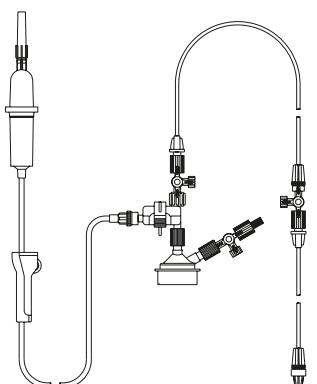
Transducer Boards/ Holder/Accessories

		Code- Number	Sales unit-pcs.
	Transducer Boards with standard hub		
CEC TD-BOARD,1-fold	5225000	1	
CEC TD-BOARD, 2-fold	5225005	1	
CEC TD-BOARD, 3-fold	5225010	1	
CEC TD-BOARD, 4-fold	5225015	1	
	Transducer Boards with integrated monitor hub		
CEC TD-BOARD Hemopod, 2-fold	5225040	1	
CEC TD-BOARD Hemopod, 4-fold	5225045	1	
CEC TD-BOARD DRÄGER 10, 2-fold	5225020	1	
CEC TD-BOARD DRÄGER 10, 4-fold	5225025	1	
CEC TD-BOARD Med. Physio Contr.,1-fold	5225030	1	
CEC TD-BOARD Datascop IABP, 1-fold	5225035	1	
	Connection Cables		
CEC CABLE HP/Philips 2-fold	5225050	1	
CEC CABLE HP/Philips 3-fold	5225055	1	
CEC CABLE HP/Philips 4-fold	5225060	1	
CEC CABLE GE/Marquette 2-fold	5225065	1	
CEC CABLE GE/Marquette 3-fold	5225070	1	
CEC CABLE GE/Marquette 4-fold	5225075	1	
CEC CABLE SIEMENS10/DRÄ,2-fold	5225080	1	
CEC CABLE SIEMENS10/DRÄ,3-fold	5225085	1	
CEC CABLE SIEMENS10/DRÄ,4-fold	5225090	1	
CEC CABLE SIEMENS7/DRÄ, 2-fold	5225095	1	
CEC CABLE SIEMENS7/DRÄ, 3-fold	5225100	1	
CEC CABLE SIEMENS7/DRÄ, 4-fold	5225105	1	
CEC CABLE DATEX, 2-fold	5225110	1	
CEC CABLE DATEX, 3-fold	5225115	1	
CEC CABLE DATEX, 4-fold	5225120	1	
CEC CABLE Siemens Miniograph 2-fold	5225125	1	
	Holder		
Combitrans® EC Holder, unmoveable	5225135	1	
	Accessories		
Combitrans® EC Dummy (for unused transducer nest)	5310000	25	
Combitrans® EC Adapter for Hemopod	5225130	1	
Combitrans® EC Monitoring Kit for cath lab Typ Munich, arterial	5311010	1	
Combitrans® EC Monitoring Kit for cath lab Typ Munich. venous	5312020	1	
Combitrans® EC Monitoring Kit for cath lab Typ Stuttgart	5313030	1	

Combidyn®

Monitoring kit for pressure measurement with reusable transducer

	Combidyn®	Code-Number	Sales unit-pcs.
	<p>Monitoring kit for physiological pressure measurement</p> <p>Complete system</p> <ul style="list-style-type: none"> - for high transmission of pressure signal - time reducing - avoids contamination at connections and during blood sampling <p>Combidyn® Monitoring kit</p> <p>Basic kit, without pressure dome</p> <ul style="list-style-type: none"> ▪ Intrafix M - special administration kit for pressure measurement ▪ Combidyn® flush device - quick flush rate – continuous flush rate 3 ml/h at 300 mmHg ▪ Discofix-3 - three-way stopcock, red ▪ Combidyn® pressure tubing 125 cm - Ø 1.5 x Ø 2.7 mm - with red stripes ▪ Combidyn® pressure tubing 20 cm - Ø 1.5 x Ø 2.7 mm - with red stripes <p>Combidyn® Monitoring Kit</p>	5205689	25

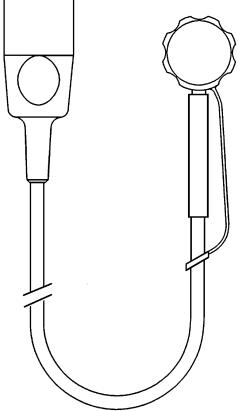
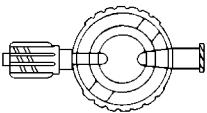
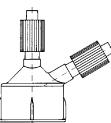
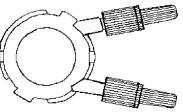
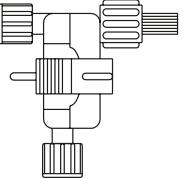


Combidyn® Monitoring Kit
Basic kit, with pressure dome
– Same configuration as above, but with pressure exchanging dome

Combidyn®	5206502	25
Reusable Transducer/Disposable domes/Flush device		
for SensoNor 840 transducers	5207410	25
for Hewlett Packard 1295 C transducers	5207070	25

Combidyn®

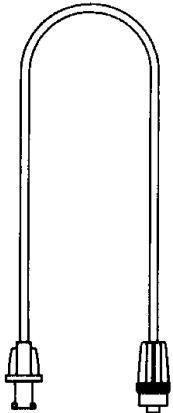
Reusable Transducer/Disposable domes/Flush device

	SensoNor 844	Code-Number	Sales unit-pcs.
	Reusable physiological pressure transducer <ul style="list-style-type: none"> - highly accurate and robust piezoresistive transducer - easy handling - click and go fixing - cable length 3 m - dry connection from dome to sensor - precalibrated sensor with constant electrical parameters - high overload protection - high accuracy of measurement - can be used in combination with all CF-class monitors - gold plated for easier cleaning - long service life 		
	SensoNor 844 pressure transducer	5904001	1
	Combidyn® Disposable (single use) domes for physiological pressure measurement <ul style="list-style-type: none"> - diaphragm made of PUR - transparent - easily filled, without air bubbles - luer-fitting resp. Linden / luer-fitting - single sterile packed 		
	for SensoNor transducers 844 with stopcock (without illustration)	844-31	50
	for SensoNor transducers 844 with two stopcock	5203320	25
	for SensoNor 840 transducers	5204100	25
	for Gould P23 XL, P23 ID transducers and Statham	5204917	25
	for Hewlett Packard 1295 C transducers	5207231	25
	Combidyn® flush device System for arterial and venous catheter flushing <ul style="list-style-type: none"> - quick flush rates to fill the monitor systems or flush the catheter - continuous flow rate 3 ml/h at 300 mmHg - easy control due to rectangle test - transparent for visual control - lock-fittings - female/male/female 		
	Combidyn® flush device	5201500	50

Combidyn®

Pressure tubings made of PVC

Combidyn®



Pressure tubing for the measurement of physiological pressure

- ø 1.5 x 2.7 mm
- undamped and accurate pressure monitoring
- pressure stability tested up to 8 bar
- transparent for visual control
- tubing of various lengths
- dead space approx. 1.2 ml/m
- tube length matches practical requirements
- colour-coding:
 - red stripes (arterial)
 - blue stripes (venous)
 - yellow stripes (pulmonary arterial)

■ Luer-fittings

- with special screw thread
- male/female
- ABS

length	Code-Number	Sales unit-pcs.
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Combidyn® transparent

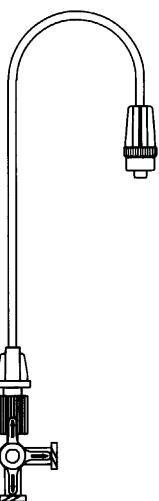
20	5204984	50
50	5205000	50
100	5205018	50
150	5205026	50
200	5205034	50

Combidyn® transparent with red stripes

20	5204941	50
100	5204976	50
150	5205042	50
200	5205050	50

Combidyn® transparent with blue stripes

100	5205255	50
150	5205263	50
200	5205271	50



Combidyn® pressure tubing with three-way stopcock

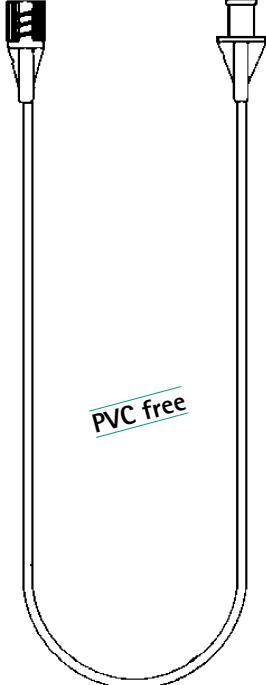
- pressure tube, red, ø 1.5 mm x ø 2.7 mm, 20 cm
- connected three-way stopcock, red

Combidyn® pressure tubing with three-way stopcock

5208599 50

Combidyn®

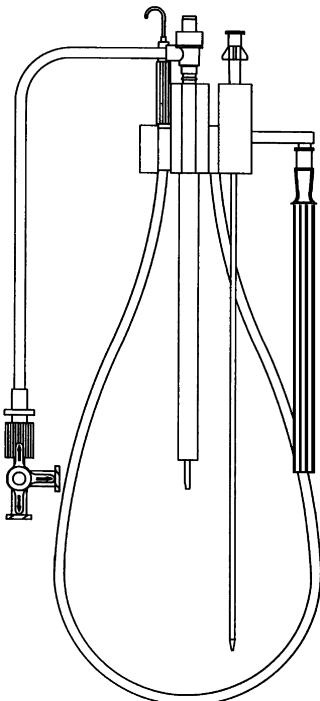
Pressure tubing made of Polyethylene Adaptor

	Combidyn®	Code-Number	Sales unit-pcs.
	Pressure tubing for physiological pressure measurement and intravenous medications Combidyn® Polyethylene – transparent Polyethylene – especially useful for infusion of drugs with PVC-incompatibility – pressure resistance tested up to 8 bar – transparent for visual control – reduced dead space – easy handling due to flexible material – especially for paediatric and neonatal pressure measurement – tubing diameter ø 1.0 x 2.0 mm – dead space approx. 0.8 ml/m		
	length	Code-Number	Sales unit-pcs.
	Combidyn® transparent		
15		5204995	50
30		5214993	50
100		5215019	50
120		5201281	50
150		5215027	50
180		5201337	50
200		5215035	50
240		5201272	50
	Combidyn® transparent with red stripes		
30		5204950	50
	Combidyn® transparent with blue stripes		
30		5205239	50
150		5215264	50
	Combidyn® pressure tubing		
	Pressure tubing for additional connection of a three-way stopcock with a catheter.		
	– pressure tubing Combidyn® PE ø 1.0 x 2.0 mm with blue stripes		
	– luer-fittings male/male		
150 blue		5210577	50
	Combifix Adaptor		
	to connect Luer lock-fittings		
	female/female	5206634	100
	male/male	5206642	100

Intradyn® Venous

Introducer for anaesthesia and intensive care

	Intradyn® Venous Hemostasis Introducer	Code-Number	Sales unit-pcs.
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Percutaneous catheter introducer kit using the Seldinger technique according to Desilets-Hofmann

- **Intradyn® puncture needle, according to Seldinger, 1.3 x 70 mm (18 G)**
 - stainless steel, ø 1.3 mm (18G)
 - smoothly tapered fitting for easy introduction of the guide wire
- **Guide wire, 40 cm**
 - stainless steel, ø 0.035 „/0.89 mm
 - flexible straight tip
- **Vessel dilator, 205 mm, made of FEP**
 - flexible, causing minimal trauma to vessels
 - smoothly tapered transition to guide wire
- **Sheath, 115 mm, made of PUR**
 - thin-walled
 - smoothly tapered transition to vessel dilator
- **Hemostasis valve**
 - to avoid retrograde blood flow
 - for venous application
 - smoothly tapered transition for easy introduction of catheter
 - sideport with mounted three-way stopcock for easy administration of I.V. solutions and injection of medications
 - Lock-fitting

Intradyn® venous with hemostasis valve

- with J3-guide wire

F6 green	5209749	20
F7 orange	5209757	20
F8 blue	5209765	20

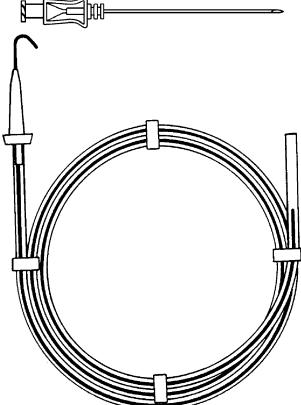
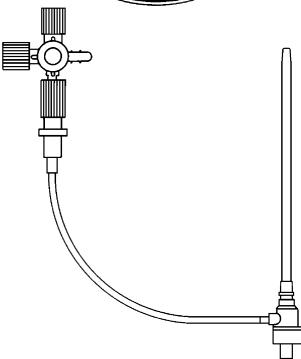
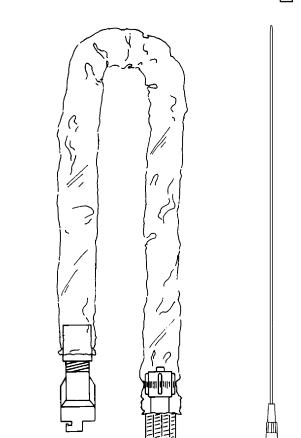
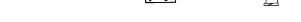
Intradyn® venous with hemostasis valve

- with straight guide wire

F5 grey	5210615	20
F6 green	5210062	20
F7 orange	5210070	20
F8 blue	5210089	20

Intradyn® Special

Basic Intensive Care Kit

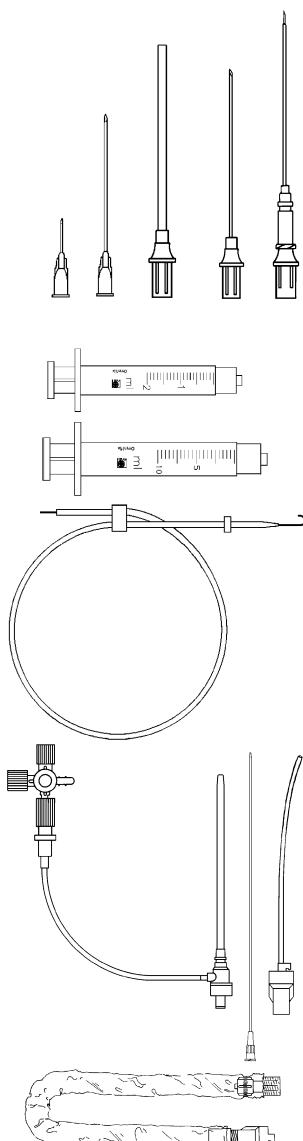
	Intradyn® Basic Intensive Care Kit	Code-Number	Sales unit-pcs.
	Intradyn® venous, percutaneous catheter introducer kit using the Seldinger technique according to Desilets-Hofmann <ul style="list-style-type: none">- Intradyn® puncture needle ø 1.3 x 63.5 mm (18 G)- guide wire, 70 cm, ø 0.035"/0.89 mm flexible J3-tip with insertion tool or flexible straight tip- vessel dilatator, 205 mm made of FEP- venous hemostasis introducer sheath, 115 mm made of PUR- hemostasis valve- catheter contamination guard, 120 cm- disposable scalpel- 4 gauze pads, 10 x 10 cm, eight-ply		
	Intradyn® basic kit F6	5210950	10
	Intradyn® basic kit F7	5210100	10
	Intradyn® basic kit F8	5210097	10
	Intradyn® basic kit F9	5210674	10



Intradyn® Special

Complete Intensive Care Kit

	Intradyn® Complete Intensive Care Kit, F8	Code-Number	Sales unit-pcs.
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- disposable injection cannula 0.51 x 15.9 mm (25 G)
- disposable injection cannula 0.72 x 38.1 mm (22 G)
- insertion needle, 1.235 x 63.5 mm (18 G)
- radio-opaque venous catheter introducer cannula made of FEP, 1.24 x 63.5 mm (18G)
- 3 ml and 5 ml syringe (Luer-fitting)
- guide wire, 45 cm, ø 0.035/0.89 mm with flexible J-tip with insertion tool or flexible straight tip
- disposable scalpel
- straight needle (23/8", 6 cm) with silk suture (75 cm, 30")
- 2 x 2 gauze pads
- 4 x 4 gauze pads
- fenestrated drape
- filter straw (13/4", 4.4 cm)
- F8 venous hemostasis introducer sheath, 115 mm, made of PUR, with hemostasis valve and sideport with tubing and three-way stopcock
- F8 vessel dilator 205 mm
- catheter contamination guard (120 cm)
- obturator F8, PUR mandrel to close the sheath

Intradyn® Complete Intensive Care Kit

F8

5210003

10

Create your individual Intradyn® Intensive Care Kit

Customized and user-friendly solutions are combined with economical and ecological advantages:

1. Service through sales representative:

Demand analysis - kit proposal - sample and customized kit configuration according to your requirements - offer

2. Individual and user-friendly:

Your made-to-order solution out of our large B. Braun range - reduction of preparation time - designed and packaged due to customer specification - one order number

3. Economical:

Standardization of work practices - relief of clinic personnel - easy material management - less money tight up for storage - less administration

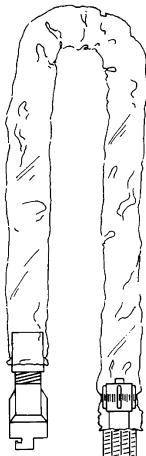
4. Ecological:

Reduced packaging volume and waste - easy disposal

Intradyn®

Accessories

		Code- Number	Sales unit-pcs.
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Catheter contamination guard for Intradyn® hemostasis introducer sheath

- proximal: fitting for safe fixation of the catheter or probe
- transparent contamination guard for visual control prevents contamination of catheters and probes during their introduction
- special connection to the sheath due to bayonet locking, 120 cm

Catheter contamination guard

5210178

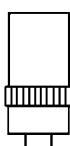
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Intradyn® guide wires (\varnothing 0.035"/0.89mm) (without illustration)

J3-tip with straightener in dispenser

5050529

25



Haemostop

Hemostasis valve for insertion of catheters and probes combined with, e. g. Intradyn® venous without hemostatic valve

- avoids blood leakage
- smooth introduction of catheters and probes
- no closing cone
- Luer Lock-fitting
- valve for arterial and venous use
- continuous hemostasis

Haemostop

5209641

50



Intradyn® arterial puncture needle (Seldinger)

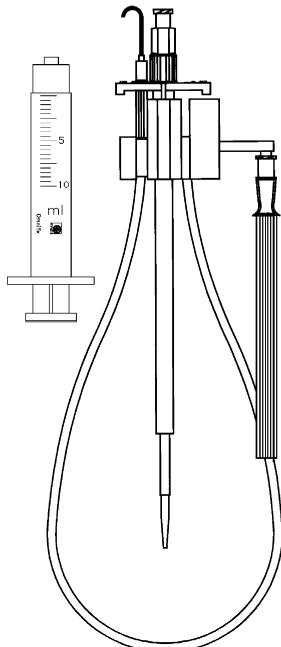
- Smoothly tapered design for easy introduction of the guide wire up to max. \varnothing 0.035" (0.089 mm)
- Luer-Lock fitting

gauge (G)	diam (mm)	length (mm)	Colour	Code- Number	Sales unit-pcs.
18	1.3	70	light pink	5208505	50

Intradyn® Tear-Away

Tear-Away Introducer

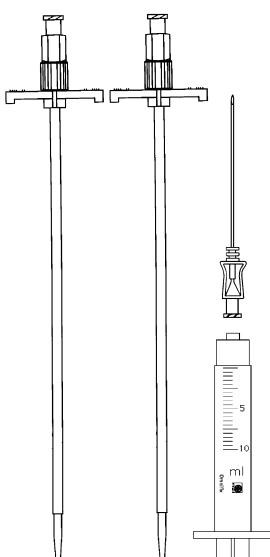
	Intradyn® Tear-Away	Code-Number	Sales unit-pcs.
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Tear-Away introducer sheath using the Seldinger technique according to Desilets-Hofmann
 – the pre-scored tearing line ensures a clean and easy sheath removal after catheter placement
 – the spin-lock connector holds dilatator and sheath together, preventing dilatator from backing out of sheath during vascular access

Intradyn® Tear-Away

- **Intradyn® puncture needle according to Seldinger 1.3 x 70 mm (18 G)**
 - made of stainless steel
 - smoothly tapered hub transition for easy introduction of guide wire
- **Guide wire 40 cm**
 - made of stainless steel, ø 0.035" / 0.89 mm
 - flexible J3-tip and flexible straight tip
- **Vessel dilatator, 190 mm made of PE**
 - flexible, minimal trauma to vessels
 - smoothly tapered transition to guide wire
- **Introducer sheath, 160 mm made of FEP- thin-walled**
 - smoothly tapered transition to vessel dilatator
- **Syringe Luer lock-fitting 10 ml**



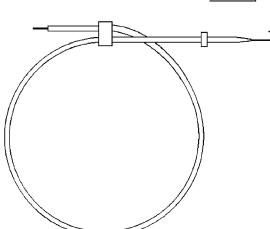
Intradyn® Tear-Away Introducer

F6	5210313	20
F7	5210593	20
F8	5210321	20
F9	5210330	20
F10	5210348	20
F11	5210585	20

Intradyn® dual Tear-Away Introducer

Splittable introducer set with two sheaths for the introduction of two probes for VDD- and DDD-pacemaker

Same content as Intradyn® Tear-Away, however with two introducer sheaths and two dilatators

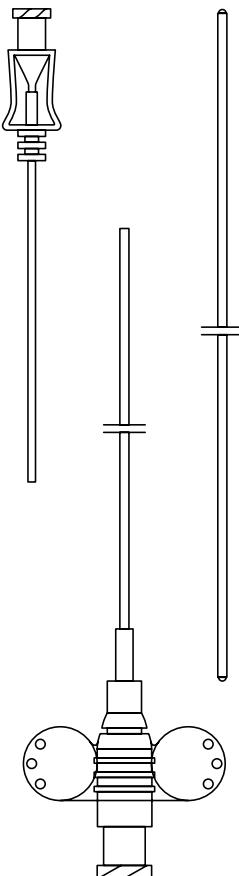


Intradyn® dual Tear-Away Introducer

F10	5212537	20
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Arteriofix

Arterial catheter kits



Arteriofix

Arterial catheter kit for invasive monitoring of blood pressure and blood sampling using the Seldinger technique

▪ **Introducer needle** made of stainless steel

- smoothly tapered hub transition for easy insertion of guide wire
- integrated design, providing smooth transition from guide wire to needle and needle to catheter to ensure minimal trauma at puncture site
- Luer lock fitting

▪ **Catheter** made of FEP

- for pressure transmission and good physical and mechanical properties of the material
- excellent tissue and blood compatibility
- smooth surface prevents thrombogenesis
- special tip for easy insertion
- FEP catheters have good gliding characteristics during insertion
- fixation wings at proximal end
- colour-coded Luer lock-fittings

▪ **Guide wire** made of stainless steel

- flexible straight tip
- designed according to the different inner diameters of catheters

colour	size	capillary: mm [Ø]; length [mm]	needle: Ø [G; mm]; length [mm]	wire: length [cm] - Ø [inch]	Code- Number	Sales unit-pcs.
Ateriofix Catheter kits						
yellow	22G/ 80 mm	0.87; 80	22; 0.80 x 50	25-0.021	5206316	20
red	20G/ 80 mm	1.08; 80	20; 0.95 x 50	25-0.025	5206324	20
white	20G/160 mm	1.08; 160	20; 0.95 x 70	40-0.025	5206332	20
grey	18G/160 mm	1.29; 160	18; 1.30 x 70	40-0.035	5206359	20

Arteriofix V

Arterial catheter kits

	Arteriofix V	Code-Number	Sales unit-pcs.
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This new version of Arteriofix® convinces with its outstanding new features and with established components.

Catheter, consisting of:

▪ Capillary

- made of FEP
- excellent tissue and blood compatibility
- smooth surface prevents thrombogenesis
- special tip for easy insertion
- outstanding gliding characteristics during insertion

▪ Fixation wings

- wings made of PUR
- soft wings adapt easily to the skin
- three suture holes
- continuous and smooth transition between wings and capillary

▪ Connecting tubing

- 7 cm long PUR tubing
- distance between puncture site and the connection area
- strain relief at the puncture site during connection

▪ Valve

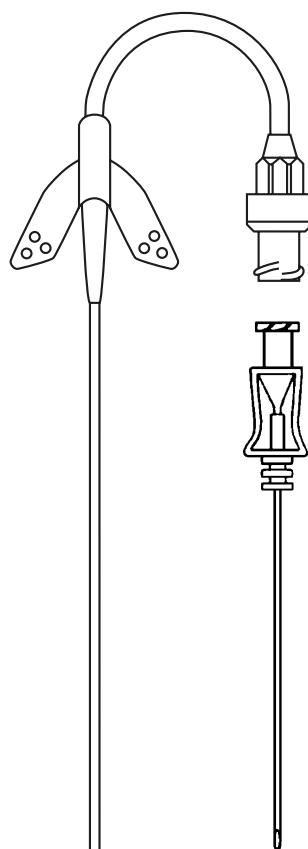
- avoids blood reflux and facilitates the handling
- provides a high leak tightness
- does not affect the pressure measurement results

Introducer needle made of stainless steel

- smoothly tapered hub transition for easy insertion of guide wire
- integrated design, providing smooth transition from guide wire to needle and needle to catheter to ensure minimal trauma at puncture site
- Luer Lock fitting

Guide wire made of stainless steel

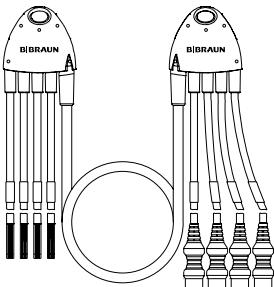
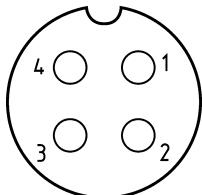
- flexible straight tip
- designed according to the different inner diameters of catheters



size	capillary: mm [Ø]; length [mm]	needle: Ø [G; mm]; length [mm]	wire: length [cm] - Ø [Inch]	Code-Number	Sales unit-pcs.
Ateriofix V Catheter kits					
22G/ 80 mm	0.87; 80	22; 0.80 x 50	35-0.021	5206364	20
20G/ 80 mm	1.08; 80	20; 0.95 x 50	35-0.025	5206363	20
20G/160 mm	1.08; 160	20; 0.95 x 70	45-0.025	5206362	20
18G/160 mm	1.29; 160	18; 1.30 x 70	45-0.035	5206361	20

Combitrans®

Combitrans®-Monitoring-Cables



Connection cables

- to connect Combitrans® disposable transducers with patient monitors (CF-class)
- internal adaption to monitor specification
- length 3 m

Transducer plug /colours monitor cable

PIN 1 = -UB (white)
PIN 2 = + Signal (green)
PIN 3 = + UB (yellow)
PIN 4 = -Signal (grey)

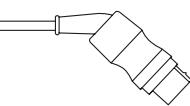
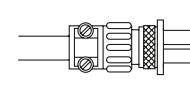
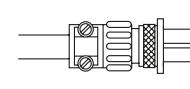
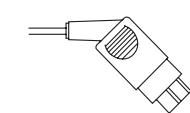
Cable Management

- safe and compact
- easy to clean
- simplify your cable management
- available as double, triple and quadruple

plug details	picture of plug	monitor model	Pins	Code-Number	length
CABLE MANAGEMENT					
		Combitrans®-Cable-Datascope double	6	5203467	3.0 m
		Combitrans®-Cable-Datascope triple	6	5203477	3.0 m
		Combitrans®-Cable-Datascope quadruple	6	5203487	3.0 m
		Combitrans®-Cable-Datex double	10	5203424	3.0 m
		Combitrans®-Cable-Datex triple	10	5203434	3.0 m
		Combitrans®-Cable-Datex quadruple	10	5203444	3.0 m
		Combitrans®-Cable-HP double	12	5205422	3.0 m
		Combitrans®-Cable-HP triple	12	5206433	3.0 m
		Combitrans®-Cable-HP quadruple	12	5207440	3.0 m
		Combitrans®-Cable-Marquette double	11	5202422	3.0 m
		Combitrans®-Cable-Marquette triple	11	5202433	3.0 m
		Combitrans®-Cable-Marquette quadruple	11	5202444	3.0 m
		Combitrans®-Cable-Spacelab double	6	5209222	3.0 m
		Combitrans®-Cable-Spacelab triple	6	5209233	3.0 m
		Combitrans®-Cable-Spacelab quadruple	6	5209244	3.0 m
		Combitrans®-Cable-Siemens double	10	5203270	3.0 m
		Combitrans®-Cable-Siemens triple	10	5203280	3.0 m
		Combitrans®-Cable-Siemens quadruple	10	5203290	3.0 m

Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
(no illustration)		ACTA GRAPH			
		Polygraph	7	5209234	3.0 m
		ARROW			
		IABP ACAT-1 Kontron Stecker	12	5203408	3.0 m
		Kwat II Plus	12	5202337	3.0 m
		BARD			
		EPU Appliance 1344; LAB-System ECG / PR-200847 (Insertion)	8	5212542	3.0 m
		B. Braun			
		VISICON IBP supply for CombiCable CC M010; M011; M111; M211	12	8732582	1.5 m
		BCI			
		6200; 9100; 9200 Advisor	6	5203511	3.0 m
		BIOMEDICAL IVY			
		401; 402; 403; 403D; 404; 405D; 700; 701; 704; 706; 707	6	5203511	3.0 m
		BIOTRONIK			
		EPM; HBV (20); HDR (20); Franke-Druck; MS4010; MS6010; MS8010 EP-Control	5	5203260	3.0 m
			7	5209100	3.0 m
		BRUKER			
(no illustration)		SM 784; 785; 786; TM 910 Defigard 2002; Physiogard MB 910	12	5201497	3.0 m
		CARDIO CAP			
		See Datex Engstrom	10	5203414	3.0 m

Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
		CARDIOTEC EP Tracer	9	5206153	3.0 m
		COBE CDX III	4	5211670	3.0 m
(no illustration)		CORPULS Corpuls 3	11	5211468 + Corpuls adapter cable (04233.02)	3.0 m
Note: The Corpuls Adapter has to be ordered directly at Corpuls or an authorized distributor.					
		CRITIKON DINAMAP PLUS (8720; 8721; 8722) DINAMAP MPS Select / Portable	6	5203511	3.0 m
		CRITICARE Scholar 1 Modell 2200; PoetPlus	5	5206152	3.0 m
(no illustration)		DANICA Dialogue 2000	10	5213363	3.0 m
		DANTEC 21C15; 23M02; 23M04; UD5000 MK2; UD5500 MK2; Urodyne 5000; 5500; Menuet; Menuet Compact; Etude; Duet; Video	5	5202825	3.0 m
		DATASCOPE System 80; 82; 83; 84; 90; 90T; 95; 98, 97 IABP; 850; 870; P2; P3; 2000; 2000A; 2001; 2001A; 2002; x 2002A; 2200I; 3000; Passport; CS-100; CS-300	6	5203457	3.0 m

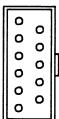
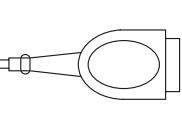
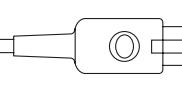
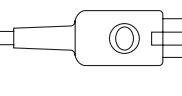
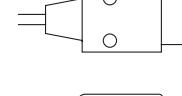
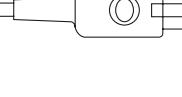
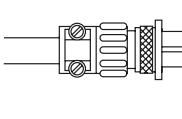
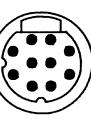
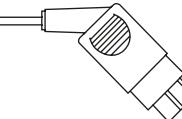
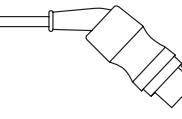
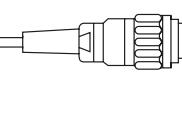
Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
DATASCOPE / Mindray Medical Germany GmbH					
(no illustration)	System built till 1980	6	5203465	3.0 m	
	PM 9000 Express	6	5203511	3.0 m	
	iPM 9800, BeneView (T5, T8)	12	5203511 + Mindray adapter cable PN: 0010-20-42795		
	Passport V	5	5203457 + Mindray adapter cable PN: 040-000096-00		
DATEX					
(no illustration)	Cardio-Cap CC-104; CCI-104; CMO-104; AS/3; CS/3; Light Cardiocap II CG-1G; S/5 light; CG-1GS; CG-2CS; CG-2G; CG-2GS; CH-1R; CH-1RS; CH-2; CH-2s; M-ESTP; M-ETP; M-P	10	5203414	3.0 m	
	all moduls with P (e.g. E-PRESTN, E-PT, E-PP)	11	5211468	3.0 m	
DISA					
2100; 21C15	6	5202833	3.0 m		
DRAEGER					
(no illustration)	Cato; Cicero EM; Vitara Parameterbox PB 8800; PM 8010; PM 8014; PM 8040; PM8060; Sulla; UM3; UM3.1;	7	5203350	3.0 m	
	North American Draeger Monitor Vitalert 2000 Dash 2000/3000/4000	11	5211468	3.0 m	
	MPod	5	5203251		
	Mpod - active	5	5203255		
(no illustration)	Adapter for Hämobox/HemoMed 2 channels, D-Sub-Plug	15	5203399	0.1 m	
E for M					
(no illustration)	see Marquette PDS 300	11	5211468	3.0 m	
GE / MARQUETTE					
(no illustration)	2000 Series 7000 Series 7010 Series (not traded anymore)	8	5212430	3.0 m	

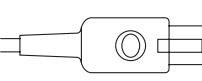
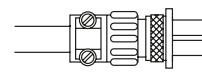
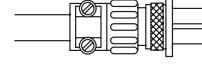
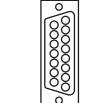
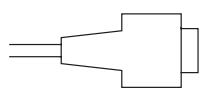
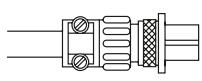
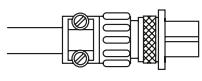
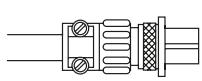
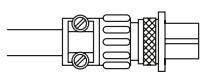
Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
GE / MARQUETTE					
		Cath-Lab; MAC-Lab (general term) Tram Module 100 up to 600; Muse Solar 7000; 8000; 9000; 808; Cardio-Window Eagle/Dash 1000; 2000; 3000; 3100; 4000	11	5211468	3.0 m
HELLIGE					
		Vicom (5. Generation) SMU 610; 611; 612; 613; 630; 639; SMK 230; 231; 260; SMU-EVO Caution: Marquette Eagle	10	5201098	3.0 m
		Servomed (4.Generation) SMV 104; 107; 111:	10	5203295	3.0 m
		SMS 104; 108; 109; 164; 168; 302; 304; 308 SMK 155	18	5213169	3.0 m
		Midas	10	5211972	5.0 m
HONEYWELL					
(no illustration)		Philips Physio-Cardiopan	9	5203392	3.0 m
INVIVO RESEARCH					
		3000; 3200; Omni-trek TVS Millennia; Omeda; 1400 Series; Expression	6	5203511	3.0 m
JOSTRA					
(no illustration)		HLM 20/21	5	5216767	3.0 m
		KONE	10	5203414	3.0 m
KONTRON					
		Minimon 7131 up to 7136: Fetalmon 2A; 2B Fetalogic 4000; Fetasonde 5; 5A; 5B; K2000 Balloon Pump; KAAT II; Module 10 up to 7286; Supermon	12	5202337	3.0 m
		Series 108; 200	6	5203457	3.0 m

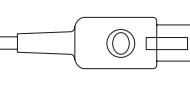
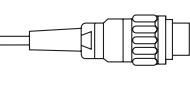
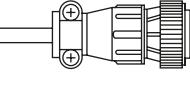
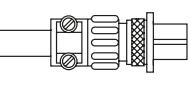
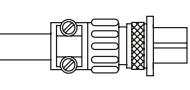
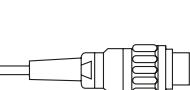
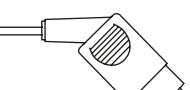
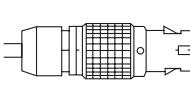
Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
		LOHMEIER / B. BRAUN VISICON IBP supply for CombiCable CC M010; M011; M111; M211	12	8732582	1.5 m
		M6 08; M8 08; M910; PM315	12	5211661	3.0 m
		LITTON see Hellige Servomed	10	5203295	3.0 m
		MENNEN Horizon 1100; 2000 Series; 3000 9000 Series; XL Series	6	5202876	3.0 m
		EMS; ENVOY; MERCURY; SOLO; MICRO-SOLO; MR 1200 up to 9200; Cathlab	6	5203511	3.0 m
		ENVOY	8	5202531	3.0 m
		(no illustration)		+ Mennen adapter part no. 551- 360-11	
		METEK DAVID	15	5203000	3.0 m
		NDE Monitor	6	5203511	3.0 m
		NELLCOR PURITAN BENNET Escort 300 A	6	5203511	3.0 m
		PD 240; PB 245; PB 245 P	10	5209242	3.0 m
		(no illustration)			
		NIHON KOHDEN BSM 2301; BSM4101A		5203201 + Nihon Kohden adapter cable (K952)	
		MEDTRONIC / PHYSIO CONTROL VSM-1; VSM-4A; VSM-5	6	5202485	3.0 m
		Lifepak 12; Lifepak 15	6	5203449	3.0 m

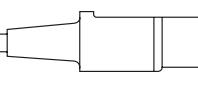
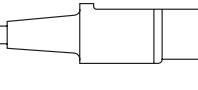
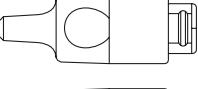
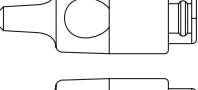
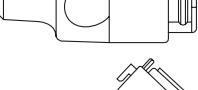
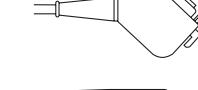
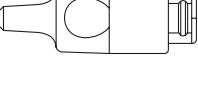
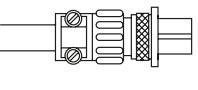
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Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
		PHILIPS / HEWLETT PACKARD			
(no illustration)		B series	12	5203406	3.0 m
(no illustration)		Philips MX700/800			
		A series	12	5213080	3.0 m
		B series	12	5202850	3.0 m
		Intellivue MP70			
(no illustration)		POLYGRAPH			
		EP 12	8	5209218	3.0 m
		PPG BIOMEDICAL			
		see HELLIGE VICOM	10	5201098	3.0 m
		PRUCKA			
		CLAB I (see Datascope)	6	5203457	3.0 m
		CLAB II	8	5203460	3.0 m
		PROTOCOL			
		Propaq 104; 106; 206; 204	6	5203449	3.0 m
		Encore; welchallyn; Zoll			
		PURITAN BENNET			
		PB 224; 240; 245	6	5203511	3.0 m
		ROCHE			
		220: 222; 223; 224;	6	5203457	3.0 m
		7320; 7324			
		S&W (SIMSON & WEIL)			
		System 8000 Athena; 8041;	10	5203430	3.0 m
		Diascope 2; Diascope Traveler;			
		Diascope NT			
		SARNS / 3M			
		5000; 8000; 8595; 9000 HLM; System 1	5	5209226	3.0 m
(no illustration)		SCHWARZER PICKER			
		DME 48	12	5203546	3.0 m

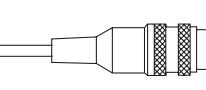
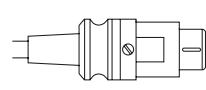
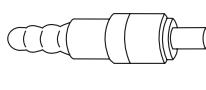
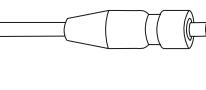
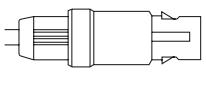
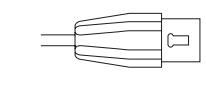
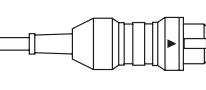
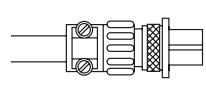
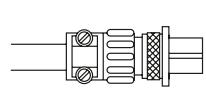
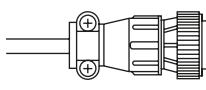
Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
SIEMENS / DRAEGER					
		SC 6000, SC7000; Dräger Infinity Delta, Gamma, Gamma XL	7	5212643	3.0 m
		SC 6000 Adapter 7 to 10 Pin SC 7000	7 10	5206458	0.2 m
		Sirecust 400-1281; SC 8000; Dräger Infinity Kappa Cable for Siemens Hemo Adapter	10	5203361	0.1 m
		Sirecust 400-1281; SC 8000; Dräger Infinity Kappa	10	5203263	1.7 m
		Sirecust 400-1281; SC 8000; Dräger Infinity Kappa	10	5209250	5.0 m
		Mingograph 7 (Europe); CathCor; HKL 440M; Multigraph Recor; CathLab; Micor; Cartridge; Sicor;	15	5203279	3.0 m
		Sirecust 400-1281; SC 8000; Dräger Infinity Kappa CrosKop X-ray system; 2002 Tochtersichtgerät	10	5203252	3.0 m
<i>(no illustration)</i>		Sirecust 300 series (342R)	5	5203260	3.0 m
SPACELABS					
		Series 400; 500; 600; 700; 1000; 3000; 90300; 90400; (90402; 90470; 90496); 90600; Alpha 7; 9; PC 1,2; UVW; 90367 portable PC Express; TEK / VIATEK; Scout	6	5203511	3.0 m
		Module 90496 (10 cm Adapter Cable)	10	Spacelabs 700-0028-00	3.0 m

Combitrans®

Combitrans®-Monitoring-Cables

plug details	picture of plug	monitor model	Pins	Code-Number	length
		STOECKERT / SORIN Stoeckert HLM; CAPS Series; S5 and C5 systems	4	5211670	3.0 m
		SCHILLER Cardioswiss CM-8; TM-7 Cardiovit AT-2S Argus	5	5211603	3.0 m
		PB-1000 (F-Series until 2005)	4	5211601	3.0 m
		PB-1000 (LP-Series new generation), Argus PRO	4	5211602	3.0 m
		SCHWARZER Physioscript PD 14 (since 9/98) Cardis 5000 Neurocard Monitor	5	5212846	3.0 m
		Physioscript PD 14 (till 9/98) CU12-C	12	5211735	3.0 m
		Cardis 5000 with Philips module	12	5212850	3.0 m
		TEKTRONIX 413A; 414; 414-21	6	5203511	3.0 m
		VIATEK see Spacelab	6	5203511	3.0 m
		WITT	8	5209500	3.0 m

Customized devices on request. Please ask your clinical specialist.

Conversion tables

Pressure units	bar	mm Hg	cm H2O	atm	psi	kPa
1 bar =	1	736	1019	0.987	14.51	100
1 mm Hg =	0.0013	1	1.39	0.0013	0.02	0.133
1 cm H2O =	9.81*10 ⁻⁴	0.736	1	0.0013	0.019	0.0981
1 atm =	1.013	745	1033	1	14.69	101.3
1 psi =	0.0689	50.71	70.21	0.068	1	6.89
1 kPa =	0.01	7.501	10.19	0.0099	0.145	1

Metal cannula

Gauge	Nominal outer diameter in mm*	acc. to ISO 6009 colour code for injection cannulas
30	0.3	yellow
28	0.36	blue-green
26	0.45	brown
24	0.55	pink
22	0.7	black
20	0.9	yellow
18	1.2	rose
16	1.6	white
14	2.1	white-green
12	2.7	white-blue

*) according to ISO/DIN 9626

Catheter diameter 1 F = 1/3 mm

French (F)	1	2	3	4	5	6	7	8	9	10	11	12	14
mm	0.33	0.67	1.0	1.33	1.67	2.0	2.33	2.67	3.0	3.33	3.67	4.0	4.67

Wire diameter 1" = 25.4 mm

Inch (")	0.008	0.010	0.014	0.018	0.024	0.028	0.032	0.035	0.038	0.045	0.047	0.063	0.071
Fmm	0.20	0.25	0.36	0.46	0.61	0.71	0.81	0.89	0.97	1.14	1.19	1.60	1.80

Catheter length 1 foot = 30.5 cm

Feet	1	2	3	4	5	6
cm	30.5	61.0	91.4	122	152	183

Notice

Notice

Notice

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