

# VisiCon® M011

Compact Patient Monitor for  
Intensive Care Medicine



Easy to operate  
Transportable  
Network-compatible

**B | BRAUN**

# VisiCon® M011

# High quality, bedside and portable

## Compact monitor – made to meet high demands

Standard parameter features: EKG with ST and arrhythmia analysis; QRS- and pacemaker detection. Monitors respiratory rate, oxygen saturation, invasive blood pressure measurement, and body temperature.

Choice of ET CO<sub>2</sub> as main-stream or side-stream measurements as well as non-invasive blood pressure measurement using plug-in monitor modules.

Transportable with sturdy hand grip, light weight<sup>1)</sup>, integrated battery for up to four hours of portable operation independent of mains supply<sup>2)</sup>.

## Sophisticated basic bedside and portable monitoring

User-selectable start settings for application areas and patient groups:

- for the operating theatres and ICUs
- for adults, children and neonates.

Autoconfiguration with automatic alarm management.

Simultaneous display of up to six parameter curves on a large, colour TFT liquid-crystal display<sup>3)</sup> in the “fixed mode” using a cursor.



CombiCable: EKG/RESP, ST and arrhythmia analysis, SpO<sub>2</sub>, 2 x IBP and 2 x TEMP with one connection port to the monitor



Optional integrated recorder<sup>5)</sup> for documentation: 6-channel thermal recorder with excellent printing quality.

## Cable Organization for bedside and easy transport

CombiCable<sup>4)</sup> integrates the monitoring cables for the basic parameters into one connection to the monitor. This prevents “cable-clutter” making transport easy and time-saving.

## Records curves or generates a screen copy at the touch of a button

At the convenient touch of a button, the integrated recorder<sup>5)</sup> delivers up to six parameter curves in real time along with the measured values.

Automatic recordings at user-defined intervals or initialized by an alarm event can be easily configured.

### Monitoring parameters:

		Monitor with CombiCable	Optionally integrated	With monitor modules	With system components
Basic monitoring	EKG	●			
	RESP	●			
	IBP	● 2x			
	SpO <sub>2</sub>	●			
	TEMP	● 2x			
Expanded monitoring	NIBP			●	
	CO <sub>2</sub> main stream			●	
	CO <sub>2</sub> side stream			●	
Documentation					
Data recording	Recorder		●		
Data communication					
Interfaces/connections	Alarm/R-SYNC	●			
	Network, central monitoring station				● VisiCon CM315
	RS 232	●			
Power Supply					
Mains operation	MAINS		●		● VisiCon LK11
Battery operation (up to 4 hrs)	BATTERY	●			
Ext. connection to low voltage supply	12V DC				● VisiCon LK11

<sup>1)</sup> approx. 5.3 kg, without power supply option and plug-in monitor modules; approx. 7 kg including power supply unit and NIBP and CO<sub>2</sub> monitor modules

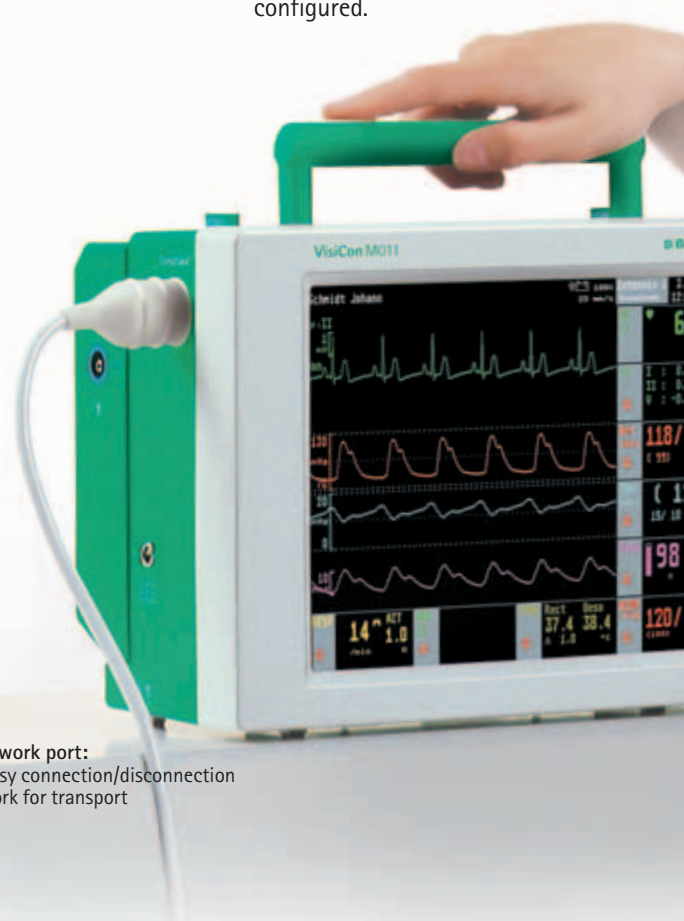
<sup>2)</sup> with integrated battery

<sup>3)</sup> Thin Film Transistor, liquid-crystal display, approx. 26.4 cm (10.4") display diagonal

<sup>4)</sup> Compatible with all VisiCon monitor systems

<sup>5)</sup> Optionally integrated

Lateral network port: Fast and easy connection/disconnection from network for transport



# portable monitoring

- 26.4 cm (10.4") TFT colour liquid-crystal display<sup>3)</sup>
- Simultaneous display of up to 6 curves
- Up to 4 hours of integrated battery operation



**Operation by control knob:**  
Convenient and easy to use. Desired functions can be directly selected and activated.

## Simple and intuitive for quick handling.

Unsurpassed in convenience and ease of use. The self-guided user interface of VisiCon monitors makes operation simple.

Just a turn of the control knob highlights the desired function giving the user complete access to the entire range of performance features. Menu structures are simple to navigate through making user handling intuitive.

A "Help Text" appears for every desired function guiding the user every step of the way, making learning quick and easy.

All selection criteria in the various menus are clearly shown on one screen so you won't get lost in many menu levels.

Selectable password protection and standby operating mode are also standard.



**Trend curve display:**  
Cursor function for displaying measured values, alarm messages and events.

## Integrated data management with Trend memory

The user-configurable graphical and tabular trend display makes it easy to assess the vital parameters of the patient.

The trend memory saves the values measured for the monitored parameters, as well as alarm events for a period of up to 96 hours.

Event marks with recallable or user-editable texts simplify documentation.

The cursor allows the measured values and alarm events to be selected and displayed in the trend report.



Monitor modules: NIBP and ETCO<sub>2</sub> main- or side stream, can be used as plug-in modules.

## Complete monitoring display – including curves, measured values and graphic information

User-definable curve and parameter selections and assignment of colours. User-specific configurations can be stored.

Automatic configuration can also be selected.

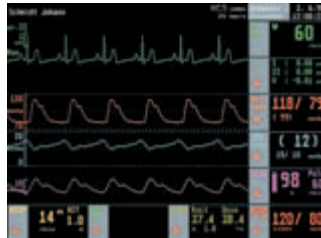
The high-contrast TFT<sup>3</sup> colour liquid-crystal display ensures excellent viewing, even at various reading angles and automatically adapts to the various lighting conditions.

## Reliable alarm classification with status information

Four-level alarm hierarchy with priority indication that is clearly differentiated both visually and acoustically.

An alarm is given within the display field of the particular value measured. This actual status information, displayed clearly, allows accurate and reliable identification of critical situations.

User-configurable alarm settings with graphic alarm upper and lower limits, as well as short-term trends, can be displayed for the monitored parameters.



### User-configurable display:

Up to six parameter curves can be simultaneously displayed using the "Fixed mode" with cursor. Display fields with large, easy-to-read digits.



### ST analysis:

Automatic or manual setting of the isoelectrical point and the ST measuring point.



### Menu parameter alarms:

User-configurable menus with graphic alarm limit ranges and short-term trends are displayed for each parameter.

## Integrated solutions in systems and networks

An optional recorder can be integrated into the monitor for documentation.

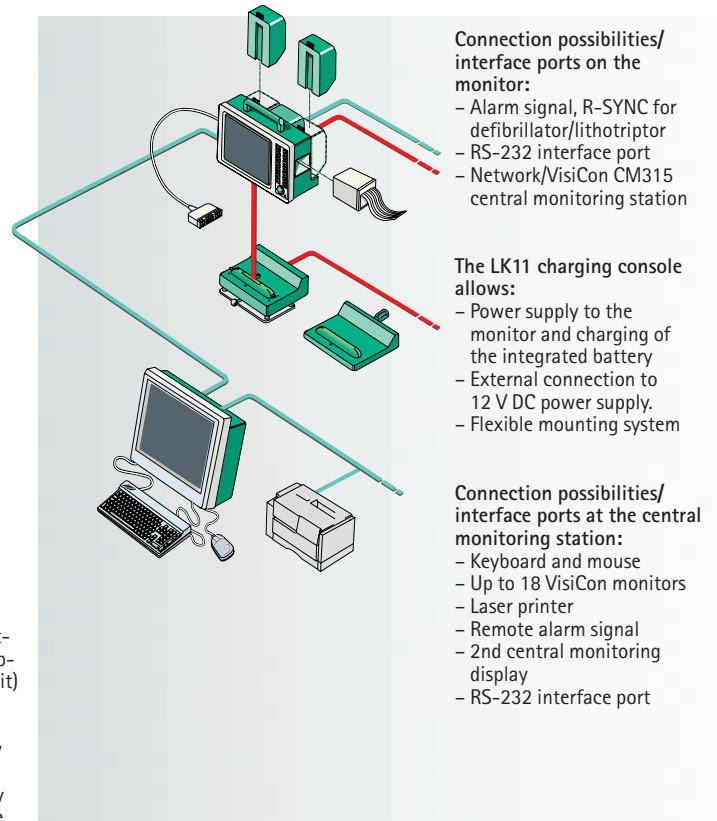
Networking with the central monitoring station and other VisiCon monitors.

### Software updates via the RS232 interface:

Simple updating or extension of performance parameters by a PC software program.

### Flexible power supply:

- Mains operation via direct connection of the monitor to the mains supply (with optional power supply unit) or via the LK11 charging console
- Battery operation with integrated battery for up to 4 hours of battery time
- The battery can be charged directly via the mains connection or via the LK11 charging console



# VisiCon® M011

## Performance overview with ordering information

VisiCon M011 – Compact Patient Monitor	
<b>Classification:</b> CF, defibrillation-proof, protection class 1	<b>Leakage current:</b> <10 $\mu\text{A}_{\text{eff}}$
Monitoring Parameters with CombiCable	
EKG/RR – with multi-channel ST segment and arrhythmia analysis. 3/5 Lead EKG; automatic recognition of the number of pins. Up to 6 leads can be simultaneously displayed. QRS- and pacemaker detection. SpO <sub>2</sub> , 2 x IBP and 2 x TEMP.	
Additional Parameters with Plug-in Monitor Modules	
NIBP – Oscillometric method of measurement, suitable for adults and children CO <sub>2</sub> main- or side-stream	
Trend function	
<b>Trend memory:</b> All parameters monitored, storage of maximum and minimum values per time interval	<b>Duration:</b> max. 96 hours
<b>Trend marking:</b> Events, event texts and alarms	<b>Trend display:</b> graphical/tabular
	<b>Cursor:</b> direct recall and display of values in the trend chart display
Documentation	
<b>Registration:</b> Optional, integrated 6-channel Thermal recorder	<b>Laser printer:</b> connected via CM 315 central station
Display/Screen	
<b>Display:</b> Colour TFT/LCD display, screen diagonal approx. 26.4 cm (10.4"), approx. 340 Cd.	<b>Curves and measured values:</b> up to 6 curves as well as display fields for measured values and graphics
<b>Brightness:</b> can be manually adjusted or adjusts automatically acc. to lighting conditions	<b>Curve display mode:</b> "fixed mode" with cursor
<b>Backlighting:</b> avg. 40,000 hrs	<b>Sweep speed:</b> can be adjusted to 6.25, 12.5, 25 or 50 mm/s
Monitor Interfaces	
<b>R-SYNC:</b> for defibrillator, lithriptor. Each R-wave is clearly identified	
<b>Staff call:</b> Remote alarm adapter;	
<b>Network:</b> VisiCon CM315 central station	
<b>RS-232:</b> as computer interface	
Mains/Battery Operation	
<b>Mains operation:</b> via integrated power supply or LK11 charging console	<b>Battery operation:</b> via integrated battery
<b>Power consumption:</b> <100 VA	<b>Battery operating time:</b> approx. up to 4 hrs.
<b>Mains voltage/current:</b> 115 V AC $\pm$ 10% or 230 V AC $\pm$ 10%, automatic change-over	<b>Battery re-charge time:</b> 90% charge level after approx. 80 min.
<b>External connection to:</b> 12 V via LK11 charging console	<b>Power failure buffer:</b> for trend values, patient's data, configuration settings and language
Dimensions	
<b>Monitor dimensions (HxWxD):</b> approx. 220 x 320 x 160 mm	<b>Weight:</b> approx. 5.3 kg (power supply unit approx. 0.65 kg, NIBP pump approx. 0.5 kg, CO <sub>2</sub> approx. 0.55 kg)
System Expansion	
<b>Software updates via interfaces:</b> extension of the range of performance parameters using a PC	
Warranty, Technical Audits	
<b>Warranty:</b> 24 months from the date of delivery <b>Technical audits:</b> 24-month intervals	

CE 0123

We reserve the right to implement technical changes without prior notice.  
B. Braun Melsungen AG

Monitor, CombiCable	Art. No./REF
VisiCon M011 – Compact Patient Monitor	8730237
EKG/RESP, SpO <sub>2</sub> , 2 x IBP and 2 x TEMP	
<b>CombiCable/7</b>	8730911
<b>CombiCable/6 with High Frequency protection</b>	8730920
Options	
<b>Integrated power supply unit</b>	8730580
<b>Integrated recorder</b>	8730555
Monitor Modules, Can Be Plugged into the Monitor	
<b>NIBP</b>	8730601
<b>CO<sub>2</sub> main-stream</b>	8730644
<b>CO<sub>2</sub> side-stream</b>	8730636
<b>Dummy module for covering empty plug-in ports</b>	8730652
Consoles/Bedside Holding Device	
<b>Charging console and mounting system: LK11</b>	8730733
<b>Bedside mounting system</b>	8734039
Accessories for CombiCable	
<b>EKG lead, 5-pin with clips</b>	8731420
<b>EKG lead, 3-pin with clips</b>	8731403
<b>EKG lead, with HF protection, 5-pin, with clips</b>	8731438
<b>EKG lead, with HF protection, 3-pin, with clips</b>	8731411
<b>EKG lead, 5-pin, with pushbutton</b>	8731462
<b>EKG lead, 3-pin, with pushbutton</b>	8731446
<b>EKG lead with HF protection, 5-pin, with pushbutton</b>	8731470
<b>EKG lead with HF protection, 3-pin, with pushbutton</b>	8731454
<b>SpO<sub>2</sub> – finger sensor, 1 m</b>	8731900
<b>SpO<sub>2</sub> – universal sensor, 1 m</b>	8731926
<b>SpO<sub>2</sub> – ear sensor, 1 m</b>	8731985
<b>SpO<sub>2</sub> – neonate sensor, 1 m</b>	8732019
<b>YSI 401 – temperature sensor</b>	8732159
Accessories for NIBP	
<b>Cuff – for adults, 25–35 cm</b>	8732264
<b>Cuff – for children, 18–26 cm</b>	8732272
<b>Connection tubing, 3 m</b>	8732388

Monitoring accessories and mounting system information is available upon request.

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