



# PiCCO<sub>2</sub>



Less invasive complete haemodynamic monitoring combining fiberoptic oximetry, transpulmonary thermodilution and arterial pulse contour analysis.

# Technical Data



<b>General</b>	
Equipment	PiCCO <sub>2</sub>
Article Number	PC8500
Equipment Class CE	IIb
Equipment Type	BF defibrillation-proof
Protection Class	I
<b>Accessories</b>	
PiCCO-Catheters and Kits	Please refer to PiCCO-Catheter data sheet
Arterial temperature cable and injectate temperature connection cable	Art. No.: PC80150
Injectate temperature sensor cable	Art. No.: PC80109
Pressure connection cable	Art. No.: PMK-206
PiCCO <sub>2</sub> pressure output adapter	Art. No.: PC85200
Main power cable	Art. No.: 401090-F (dependent on country)
Grounding cable	Art. No.: 401080
Optical module	Art. No.: PC3015
<b>Screen</b>	
Type	13.3" TFT LCD colour display, touchscreen, active matrix
Size (W x H)	299 x 195 mm
Viewing Area (W x H)	286 x 178 mm
Resolution	1280 x 800 Pixel
<b>Electrical Specifications</b>	
Mains Voltage	100 to 240 VAC
Mains Frequency	50 to 60 Hz
Power Consumption	85 VA max.
Internal Battery	14.4 V 36 Wh
Cell Type	Lithium-Ion
Charging Time	3 to 5 h
Battery Operating Time	> 30 min
<b>Operating Conditions</b>	
Temperature Range	10 to 40 °C
Relative Humidity	75 % (non condensing)
Atmospheric pressure range	700 to 1060 hPa
<b>Transport and Storage Conditions</b>	
Temperature Range	-20 to 60 °C
Relative Humidity	90 % (non condensing)
Atmospheric pressure range	700 to 1060 hPa
<b>Physical Attributes</b>	
Size (W x H x D)	328 x 248 x 180 mm (with Navigation Dial)
Weight	< 5 kg
<b>Standards</b>	
EN 60601-1:1990 + A1:1993 + A2:1995	<b>Compliance</b> Class I Equipment 1x Type BF Applied Part 3x Type CF Applied Part IPX0
EN 60601-1-1:2002	
EN 60601-1-2:2002	
EN 60601-1-4:2001	
EN 60601-1-6:2005	
EN 60601-2-34:2001	
<b>User Interface</b>	
User Controls	Touchscreen, Navigation Dial, Fixed Keys (Hardkeys)
<b>Data Transmission Capabilities</b>	
Interfaces	RS232, LAN, 2xUSB

Mounting systems and printer available on request.

## Parameters

Category	Parameter	Label	Unit	Lower limit	Upper limit	Accuracy*
• Flow	Pulse Contour Cardiac Output	PCCO <sup>2)</sup>	l/min	0.25	25.0	Coefficient of variation ≤ 3 % ± 3 %
	Cardiac Output	CO <sup>2)</sup>	l/min	0.25	25.0	Coefficient of variation ≤ 2 % ± 2 %
	Stroke Volume	SV <sup>2)</sup>	ml	1	250	Coefficient of variation ≤ 3 % ± 3 %
• Preload	Global End-Diastolic Volume	GEDV <sup>2)</sup>	ml	40	4800	Coefficient of variation ≤ 3 % ± 3 %
	Intrathoracic Blood Volume	ITBV <sup>2)</sup>	ml	50	6000	Coefficient of variation ≤ 3 % ± 3 %
• Volume Responsiveness	Stroke Volume Variation	SVV <sup>2)</sup>	%	0	50	Calculated
	Pulse Pressure Variation	PPV <sup>2)</sup>	%	0	50	Calculated
• Contractility	Global Ejection Fraction	GEF <sup>2)</sup>	%	1	99	Calculated
	Cardiac Function Index	CFI <sup>2)</sup>	l/min	1.0	15	Calculated
	Index of Left Ventricular Contractility	dPmx <sup>2)</sup>	mmHg/s	200	5000	Calculated
	Cardiac Power Output	CPO <sup>2)</sup>	W	0.01	9.99	Calculated
• Afterload	Systemic Vascular Resistance	SVR <sup>2)</sup>	dyn•s•cm <sup>-5</sup>	1	30000	Calculated
• Pulmonary Edema	Extravascular Lung Water	EVLW <sup>2)</sup>	ml	10	5000	Coefficient of variation n/a
	Pulmonary Vascular Permeability Index	PVPI <sup>2)</sup>	-	0.10	9.0	Calculated
• Oxygenation	Central Venous Oxygen Saturation	ScvO <sub>2</sub> <sup>1)</sup>	%	1	99	Calculated
	Oxygen Supply	DO <sub>2</sub> <sup>1) 2)</sup>	ml/min	10	5000	Calculated
	Oxygen Consumption	VO <sub>2</sub> <sup>1) 2)</sup>	ml/min	10	5000	Calculated

Measured with 1) CeVOX-Probe, 2) PiCCO-Catheter \* Coefficient of variation, measured using synthetic and/or database wave forms (laboratory testing)

Technical specifications are subject to change without further notice.

For further information please visit [www.PiCCO2.com](http://www.PiCCO2.com) or contact us by e-mail or phone.

