HemoSphere Monitor Technology Specifications

HemoSphere monitor offers full-range cuff, sensor, and catheter compatibility designed for individualized patient management. With expanded capabilities and predictive algorithms, HemoSphere monitor offers actionable insights to help you stay ahead of critical moments.



Compatible products and parameters include:

	Noninvasive		Minimally-invasive		Invasive			
	Acumen IQ cuff	ClearSight finger cuff	ForeSight sensor	Acumen IQ sensor	FloTrac sensor	Swan-Ganz catheter	PediaSat catheter	+ Parameters from Acumen IQ sensor that are viewable
StO ₂			•					on the invasive screen are
∆ctHb			•					limited to SVV, Ea _{dyn} , dP/dt, HPI, and PPV when Acumen
HPI*	•			•		+		IQ sensor is used along with
Ea _{dyn}	•			•		+		Swan-Ganz catheter.
dP/dt	•			•		+		 Acumen Hypotension Prediction Index (HPI)
CO/CI	•	•		•	•	•		software is unlocked with
SV/SVI	•	•		•	•	•		the Acumen IQ sensor and Acumen IQ cuff.
SVV/PPV	•	•		•	•	+		2
SVR/SVRI	•	•		•	•	•		** CVP can be accessed with TruWave sensor in invasive mode.
PVR/PVRI						•		
SvO ₂						•		
ScvO ₂							•	
RVEF/EDV						•		
MAP	•	•		•	•			
PASP/PADP						•		
CVP**						•		Edwards

HemoSphere bundles Model Description				
HEM7CARDIAC (Cardiac bundle)	HemoSphere advanced monitoring system with Swan-Ganz module, oximetry cable, one pressure cable, HPI, and tissue oximetry system (module and cable)			
HEM7PCSR2 (Smart Recovery bundle)	HemoSphere advanced monitoring system with ClearSight module, pressure controller, heart reference sensor, one pressure cable, and HPI; tissue oximetry module included (cable must be purchased separately)			
HEM7T02	HemoSphere advanced monitoring system with tissue oximetry system (module and cable)			
HEMCSMUPG (HemoSphere upgrade)	Pressure controller, heart reference sensor, and the Windows 10 upgrade			
HEMAQCXUPG (HemoSphere upgrade)	Tissue oximetry module and cable, HPI, pressure cable			
HEMCX2 (HemoSphere upgrade)	HemoSphere tissue oximetry system (module and cable) upgrade kit			

HemoSphere modules

HEMSGM10	HemoSphere Swan-Ganz module		
Weight - approx. 1 Width - 3.53 in (8.		Height - 1.36 in (3.45 cm Depth - 5.36 in (13.6 cm)	
HEMTOM10 HemoSpher		re technology module	
Weight - 1.0 lb (0. Width - 3.5 in (9.0		Height - 1.4 in (3.5 cm) Depth - 5.4 in (13.6 cm)	
HEMCSM10 HemoSpher		re ClearSight module	
Weight - approx. 2 Width - 5.6 in (14		Height - 5.1 in (13 cm) Depth - 3.9 in (10 cm)	

HemoSphere cables**

AAFMC	Acumen AFM cable		
HEMFSM10	HemoSphere ForeSight oximeter cable		
Weight - 2.4 lbs (1.05 kg) Length - 239 in (6070 mm)			
HEMOXSC100	HemoSphere oximetry cable		
Weight - approx. 0.54 lbs (0.24 kg) Length - 9.6 ft (2.9 m)			
HEMPSC100	HemoSphere pressure cable		
Weight - approx. 0.64 lbs (0.29 kg) Length - 120 in (3048 mm			
PC2K	Pressure controller kit		
	Length - 144 in (3657 mm)		

Monitor (HEM1) specifications

Weight	10 ±0.2 lbs (4.5 ±0.1 kg)		
Width - 12.4 in (31	15 mm) Height - 11.7 in (297 mm) Depth - 5.56 in (141 mm)		
Display	Active area - 12.1 in (307 mm)		
	Resolution - 1024 x 768 LCD		
Operating system	Windows 10 IoT		
Rated supply voltage	100-240 Vac, 50/60 Hz		
Rated input	1.5 to 2.0 Amps		

Input / output

<u> </u>			
Touch screen	Projective capacitive touch		
RS-232 serial port (1)	Edwards proprietary protocol: maximum data rate = 57.6 kilo baud		
USB ports (2)	1 USB 2.0, 1 USB 3.0		
Ports	1 RJ-45 Ethernet, 1 HDMI		
Hospital information system connectivity	Health Level 7 (HL7); integration services are subject to local availability		
DPT pressure	DPT pressure out		
ECG monitor input	Sync line conversion: 1V/mV; Input voltage range +/- 10V full scale Resolution = ± 1 BPM; Range = 30 to 200 BPM; ¼ in. stereo jack; analog cable Accuracy = ±10% or 5 BPM of the input		

HemoSphere battery pack

HEMBAT10	HemoSphere battery pack			
Weight - 1.1 lbs (0.5 kg)		Height - 1.38 in (35 mm)		
Width - 3.15 in (80 mm)		Depth - 5.0 in (126 mm)		
Cells - $4 \times \text{LiFePO}_4$ (lithium iro		on phosphate)		

** For a complete list, please contact your Edwards Lifesciences sales representative

CAUTION: Federal (United States) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, precautions, and adverse events.



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