

Cardiac Output Module and S(c)vO₂ Module, E-COP, E-COPSv

For monitoring the state of the heart



The E-COP module integrates the thermodilution cardiac output (C.O.), right ventricular ejection fraction (REF) and invasive blood pressure (P) measurements onto CARESCAPE™ monitor's screen. The E-COPSv module provides the additional measurement of mixed venous oxygen saturation (SvO₂) and central venous oxygen saturation (ScvO₂). The module is IEC 60601-1 3rd edition compliant.

Features

- Modules contain direct keys for starting the C.O. measurement and zeroing invasive pressure channel
- Single and automatic set of C.O. measurement types
- Up to six C.O. measurements can be edited for an averaged C.O.
- Hemodynamic and oxygenation calculation display view
- Provides the following hemodynamic calculations with indexed values: CI, SV, SI, SVR, SVRI, PVR, PVRI, LVSW, LVSWI, LCW, LCWI, RCW, RCWI, RVEDV, RVEDVI, RVSW, RVSWI+RVESV and RVESVI
- Provides the following oxygenation calculations with indexed values: CaO₂, CvO₂, C(a-v)O₂, VO₂, VO₂I, RQ, ATMP, VO₂ calc., VO₂I calc., O₂ER, DO₂, DO₂I, PaO₂, AaDO₂, CcO₂, Qs/Qt, CO calc. and CI calc.
- Editing of calculation input data
- Trending and printing of calculations
- Insertion/removal of the module without interrupting other monitoring
- SvO₂, ScvO₂, C.O. and REF measurements provided with Edwards Lifesciences Corp. compatible catheters

Invasive blood pressure

Measurement method	Invasive blood pressure is converted to an electrical signal by a pressure transducer. The signal is displayed continuously as a waveform and numeric value. The invasive pressure setup consisting of connecting tubing, pressure transducer, an intravenous bag of normal saline or other flush liquid connected together by stopcocks, is attached to the arterial catheter. The pressure transducer is placed at the same level with the heart and electrically zeroed
Measurement range	-30 to 320 mmHg
Measurement accuracy	±4% or ±4 mmHg
Transducer sensitivity	5 $\mu\text{V}/\text{V}/\text{mmHg}$
Pressure filter	0 to 22 Hz (-3 dB) adjustable upper limit 4 to 22 Hz

Waveform display

Range	-30 to 300 mmHg
Scales	Adjustable in 10 mmHg increments

Numerical display

Resolution	1 mmHg
Alarms	Adjustable high and low alarm limits for systolic, diastolic and mean pressures

Pulse rate

PR from ART and FEM	
Measurement range	30 to 250 bpm
Display resolution	1 bpm
Accuracy	±5% or ± 5 bpm

Monitor compatibility

CARESCAPE modular monitors

Environmental specifications

Operating conditions

Temperature	10 to 40°C (50 to 104°F)
Relative humidity	10 to 90% non-condensing

Storage conditions

Temperature	-25 to 60°C (-13 to 140°F)
Relative humidity	10 to 90% non-condensing

Physical specifications

Dimensions (H x W x D)	11.2 x 3.7 x 18.7 cm (4.4 x 1.5 x 7.4 in)
Weight	0.35 kg (0.77 lb)



Imagination at work

Product may not be available in all countries and regions. Full product technical specification is available upon request. Contact a GE Healthcare Representative for more information. Please visit www.gehealthcare.com/promotional-locations.

Data subject to change.

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