

**PHILIPS**

Patient Monitor  
Module

Hemodynamic

FloTrac™

# Hemodynamic integration

Minimally invasive cardiac output  
on your Philips bedside monitor



# The power of integrated solutions

Anesthesia providers experience difficulties due to configurations of their working area, equipment clutter, and limited space which may impact patient safety and cost of care delivery.<sup>1</sup> Integrated solutions can help to optimize anesthesia workspaces.<sup>1</sup>

The new FloTrac™ module integrates Edwards Lifesciences FloTrac™ technology into your Philips bedside monitor, bringing you a trusted minimally invasive A-line measurement for continuous advanced hemodynamic parameters. The continuous clarity provided by FloTrac™ offers proactive decision support to manage hemodynamic instability and helps you to ensure adequate patient perfusion.<sup>4</sup>

## Bedside availability, full network integration

The FloTrac™ module is suitable for use with adult patients in both high- and mid-acuity environments. As a single-slot module, it integrates seamlessly into your existing hardware, and it can be shared between monitors in different locations. The direct IBP measurement via the Philips invasive pressure socket enables continuous IBP measurement throughout patient transport.

Integration with your Philips bedside device allows for better asset utilization of your Philips monitor with minimally invasive hemodynamic FloTrac™ parameters. The required space, setup complexity and costs are low. The special FloTrac™ screen design of the Philips patient monitor provides the hemodynamic values and trends to support quick and easy navigation alongside all other relevant vital signs.



## FloTrac™ – proactive decision support

Perioperative complications remain as high as almost 20% in patients having elective non-cardiac surgery.<sup>2</sup> Especially in patients with a high risk for perioperative complications, stroke volume/cardiac output guided hemodynamic management may reduce the risk for postoperative complications.<sup>2</sup> At the same time, there is a trend towards using less invasive and non-invasive (hemodynamic monitoring) techniques to reduce the risks that accompany (less) invasive techniques.<sup>3</sup>

The minimally invasive FloTrac™ system is a trusted solution for advanced hemodynamic monitoring that automatically calculates the following key pressure and flow parameters every 20 seconds.<sup>4</sup>

- Cardiac Output (CO)
- Stroke Volume (SV)
- Stroke Volume Variation (SVV)
- Systemic Vascular Resistance (SVR)
- Mean Arterial Pressure (MAP)

The provided continuous clarity offers proactive decision support to manage hemodynamic instability and helps you to ensure adequate patient perfusion.<sup>4</sup> Widely used across operating rooms and intensive care units, the FloTrac™ sensor connects to an existing arterial catheter.<sup>4</sup>

## Supporting you and your patients








Drawing on our extensive experience, Philips and Edwards Lifesciences have teamed up to help you expand the hemodynamic monitoring capabilities of your Philips bedside monitor. By combining the expertise from two market leaders, we aim to support you with a comprehensive portfolio of hemodynamic solutions that helps you to serve your patients.



*The FloTrac module is not available in the USA*



## The key benefits of FloTrac™ integration in Philips bedside monitoring<sup>4</sup>

-  Plug-and-play for easy, fast integration
-  Low setup complexity and costs
-  No additional space occupied
-  Immediate and direct hospital network integration
-  Cost control with modules shared between patient monitors
-  Continuous ABP measurement for patient transport enabled.
-  Better utilization of Philips monitors

## Key benefits of FloTrac™ measurement<sup>4</sup>

- Provides key flow parameters (CO, SV, SVV, SVR, MAP)
- Minimally invasive (A-line)
- Continuous measurement (values updated every 20 seconds)
- Requires no manual calibration\*
- 6.6 million monitored patients in more than 89 countries
- 300+ medical publications

\* Leveling the sensor and zeroing the arterial line are still required



1. Soheyla Mohammadi Gorji, Joseph A, Sahar Mihandoust, et al. Anesthesia Workspaces for Safe Medication Practices: Design Guidelines. HERD. 2024;17(1):64-83. doi:10.1177/19375867231190646
2. Saugel B, Annecke T, Bein B, et al. Intraoperative haemodynamic monitoring and management of adults having non-cardiac surgery: Guidelines of the German Society of Anaesthesiology and Intensive Care Medicine in collaboration with the German Association of the Scientific Medical Societies. J Clin Monit Comput. 2024; doi: 10.1007/s10877-024-01132-7. Epub ahead of print.
3. Huygh J, Peeters Y, Bernards J, et al. Hemodynamic monitoring in the critically ill: an overview of current cardiac output monitoring methods. F1000 Research. 2016, 5(F1000 Faculty Rev):2855. doi: 10.12688/f1000research.8991.1
4. Philips data on file

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