Invasive Pressure

Measurement for real-time waveforms and numerics

Invasive pressure and other Philips vital sign measurements use sophisticated algorithms to minimize artifacts and produce crisp waveforms.

The Invasive Blood Pressure (IBP) measurement module produces real-time waveforms and numeric values for systolic, diastolic, and mean arterial blood pressure and works with a range of catheters and blood pressure transducers. Software algorithms filter typical artifacts such as respiratory variation and pressure changes caused by flushing the line or drawing blood samples. Analog output for use with intra-aortic balloon pumps (IABP) is available as an option.

Real-time, continuous pressure measurements

Around-the-clock invasive pressure monitoring is valuable for patients in a variety of clinical environments. The invasive pressure module is designed for monitoring adult, pediatric, and neonatal patients.

Numerics, waveforms, and alarms can be configured by the clinician within tight limits. Connector cables are color coded to match the pressure module, which helps save valuable time and avoid confusion in the hectic clinical environment.

Pulse pressure variation

Selecting an arterial pressure label enables pulse pressure variation (PPV) to be displayed. PPV is an indicator of a patient's volume responsiveness.

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Features

- The Multi-Measurement Server stores zero and calibration values, alarm limits, and labels internally so that they are maintained when a patient is transferred from one bed or monitor to another.
- Configurable alarm settings provide added flexibility
- Can be used for invasive pressure measurement at any site
- Optional analog pressure output is available

Measurement modules are lightweight, rugged, and can be slipped quickly in and out of the Flexible Module Server.

Invasive pressure is one of the five "standard of care" measurements included in the Philips Multi-Measurement Server and extensions. A single measurement module is also available.

M1006B	Invasive Pressure module
M3000A	Multi-Measurement Server (3-5-lead ECG)
M3001A	Multi-Measurment Server (EASI 12-lead ECG; conventional 12-lead optional)
M3012A	Hemodynamic extension
M3014A	Capnography extension
M3015A	Microstream CO_2 extension

References

McGhee BH, and Bridges EJ. Monitoring arterial blood pressure: what you may not know. Crit Care Nurse. 2002 Apr; 22(2): 60-79.

Pickering TG. Principles and techniques of blood pressure measurement. Cardiol Clin. 2002 May; 20(2): 207-23.

Bridges EJ. Monitoring pulmonary artery pressures: just the facts. Crit Care Nurse. 2000 Dec; 20 (6): 59-78.

Philips Commitment to Measurement Technologies

Philips is committed to providing best-in-class standard clinical measurements as well as innovative measurements to support clinicians' decisions at the patient's side.

- Maintaining and advancing the performance of existing, widely used standard-of-care measurements
- Investing heavily in research, development, and clinical validation of new, innovative parameters and algorithms
- Working with strategic partners to integrate next-generation measurements and technologies
- Providing interfaces to more than 100 third-party specialty measurement devices through the Philips VueLink module