



A powerful combination – proprietary CSI vital signs and 5-agent gas analysis technology. Versatile, reliable, and incredibly compact. Designed to operate simply, in less time, and with greater accuracy!

The Poet IQ automatically identifies and quantifies inspired and expired CO₂, N₂O, O₂, and five anesthetic agents. The system’s reliable performance, ease of use, flexible design, and affordable cost make it the ideal monitoring solution for anesthesia applications in hospitals and surgical centers.

Features

- State-of-the-art non-dispersive infrared (NDIR) technology identifies and measures five anesthetic agent gases: Halothane, Enflurane, Isoflurane, Desflurane, and Sevoflurane.
- Automatic or manual modes.
- Breath-by-breath O₂, CO₂, and N₂O monitoring. Gas flow sampled at 100, 150 and 200 ml/min. Mixed agent identification.
- Measurement accuracy is not affected by alcohol.
- Fast warm-up time ensures full accuracy within minutes.
- Auto-calibration.
- Bright, real-time display of numerical values and waveforms provides instant notification of changing patient status.
- Lightweight, portable design provides flexible workspace options.



Specifications

Gas Monitoring

Method: Sidestream; Non-dispersive infrared (NDIR)

Identified Gases: Halothane, Isoflurane, Enflurane, Desflurane, Sevoflurane, CO₂, N₂O, Oxygen

Output Data: Inspired and end-tidal gas concentrations; continuous real-time gas concentrations; respiratory rate (elapsed time since last breath); agent identification (primary agent and mixed agents); system information (diagnostic status messages)

Agent Detection

Measurement Range:

Halothane: 0 to 10%

Isoflurane: 0 to 10%

Enflurane: 0 to 10%

Desflurane: 0 to 20%

Sevoflurane: 0 to 10%

CO₂: 0 to 12.5%

N₂O: 0 to 99%

Oxygen: 0 to 100%

Measurement Accuracy

Agents: ± (0.1% abs. + 4% reading)

CO₂: ± 0.2% abs. or 4% of reading

N₂O: ± (1.5% abs. + 4% of reading)

Oxygen: ± 3 vol.% (for 0-90%), ± 4 vol.% (for 91-99%)

Time to Detect Agent: < 15 seconds @ 200 ml/min

Agent Detection Resolution: 0.1 Volume Percent

Mixed Gas Threshold: 0.2 vol. % +10% of total concentrations

Rise Time

Range: 1 to 60 breaths/minute

Accuracy: ± 2 bpm or 2% of reading

System Features

System Configuration: Modular design with bi-directional communication, via cable, to the Poet Plus 8100 vital signs monitor.

Waveform Output

Halothane, Isoflurane, Enflurane, Desflurane, Sevoflurane, CO₂, N₂O, O₂.

Concentration Units: Vol.%, Torr, kPa, mmHg.

Flow Rates: 100 ml/min, 150 ml/min, 200 ml/min.

Occlusion Clearing: Automatic.

Auto Zeroing: Occurs 30 to 60 minutes.

Duration: 3.0 to 7.0 seconds.

Manual user calibration not required.

Temperature stabilized optical assembly.

