



The **Mindray Datascope Gas Module 3** is a companion to several patient monitors. The Gas Module 3, commonly called the Datascope GM3, is capable of automatically identifying and measuring five anesthetic agents (Desflurane, Enflurane, Sevoflurane, Halothane, and Isoflurane, as well as N₂O, CO₂, and O₂). This unit monitors all gases via sidestream sampling.

Features

- 200 mL/min sample flow rate for adult/pediatric water trap, and 120 mL/min with neonatal water trap.
- Uses a non-dispersive infrared analyzer measuring absorption of the gas sample at seven infrared wavelengths.
- 2.5 second sampling delay
- Water trap that removes water and impurities from the patient sample.
- Analyzes patient sample at a fixed rate.



Specifications

Dimensions

Height: 3" (7.63 cm)
Width: 11.9" (30.16 cm)
Depth: 10.4" (26.35 cm)
Weight: 6.2 lbs (2.8 kg)

Performance

Technology: NDIR type gas analyzer measuring at 3.9 – 12.8 μm with paramagnetic oxygen sensor. Pressure, temperature and full spectral interference correction.

Operating modes: Startup; ISO accuracy; Full accuracy

Measured gases: CO₂, N₂O, O₂, HAL, ENF, ISO, SEV, DES

Measured parameters: Momentary gas concentration; Inspired and expired concentrations of all gases; Breath rate

Resolution: CO₂ and agents: 0.01%; O₂ and N₂O: 0.1%

Warm-up Time: ISO accuracy within 45 s, full accuracy within 10 min

ISO Accuracy Specifications

As Full Accuracy Specifications, but de-rated as follows:

- Add $\pm 0.3\%$ ABS to inaccuracy for CO₂
- Add $\pm 8\%$ REL to inaccuracy for all Agents
- N₂O inaccuracy is $\pm (8\% \text{ REL} + 2\% \text{ ABS})$
- O₂ no addition

Pneumatic

Technology: Side-stream gas sampling

Pneumatic Modes: Room air reference measurement: Automatic; Sampling system purge: Automatic

Pump: Flow controlled dual membrane

Gas sampling rate: with DRYLINE™ Water Trap, Adult/Ped: 200 ml/min; with DRYLINE™ Water Trap, Neonate: 120 ml/min

Occlusion Alarm: Actual flow < 40 ml/min

Room Air Reference Measurement: Automatic when gas measurement bench temperature change is > 1°C or time since last ref. measurement is > 4 h

Reference Measurement Interval: ISO Accuracy Mode > 30 s Full Accuracy Mode > 4h

Reference Measurement Duration: Typical 5 s, Max 9 s

Purge Cycle: Automatic when occlusion detected

