



The **Dräger SCIO** gas measurement module is a free-standing unit that samples breathing gases from adults to pediatric patients in non-, partial- and total rebreathing systems. It continuously measures the content of CO₂, N₂O, O₂, and one of the anesthetic agents Halothane, Isoflurane, Enflurane, Sevoflurane, and Desflurane in any mixture. It communicates real time and derived gas information to the host system.

Features

- Uses infrared light to continuously measure the sample contents.
- 150 ml/min sample flow rate.
- Connects to the SC 7000/8000/9000 XL monitors.
- Self-zeroing and does not need calibration by clinical staff.
- O₂ cell in the unit does not require routine calibration, however, the user may choose to perform a 1-point or 2-point calibration.



Specifications

Dimensions

Height: 4.8" (12.2 cm)
Width: 8.7" (22.2 cm)
Depth: 11.7" (30 cm)
Weight: 6.6 lbs (3 kg)

General

Mode of operation: Continuous
Power: from specified power supply
Sound Pressure level: ≤ 45 dB(A)
Air Ingression, leakage: < 45 ml during zeroing, < 10 ml/min leakage
Sample Flow rate: 150 ml/min. ± 20 ml/min.

MultiGas

Parameter display: etCO₂*, iCO₂*, RRc*, et O₂, iO₂, O₂, N₂O, etHAL, iHAL, etISO, iISO, etENF, iENF, etSEV, iSEV, etDES, iDES

Agents measured: Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane

Display Values

Agents, CO₂, O₂: Inspired and expired concentrations (%), plus trend, and waveform

N₂O: Inspired and expired concentrations (%)

Measuring methods

CO₂, Agents, N₂O: Infrared

O₂: Paramagnetic sensor

Display Range

CO₂: 0% to 10% (resolution 0.1%)

O₂: 0% to 100% (resolution 1.0%)

N₂O: 0% to 100% (resolution 1.0%)

Agents:

Halothane: 0% to 10% (resolution 0.1%)

Isoflurane: 0% to 10% (resolution 0.1%)

Enflurane: 0% to 10% (resolution 0.1%)

Sevoflurane: 0% to 11% (resolution 0.1%)

Desflurane: 0% to 24% (resolution 0.1%)

Accuracy

Full Accuracy after warmup complete - Agents: (when RR ≤ 40)

Halothane (up to 8.5%vol): $\pm(0.15$ vol % + 15% rel.)

Isoflurane (up to 8.5%vol): $\pm(0.15$ vol % + 15% rel.)

Enflurane (up to 10%vol): $\pm(0.15$ vol % + 15% rel.)

Sevoflurane (up to 10%vol): $\pm(0.15$ vol % + 15% rel.)

Desflurane (up to 20%vol): $\pm(0.15$ vol % + 15% rel.)

Full Accuracy after warmup complete - N₂O: (when RR ≤ 40) $\pm(2$ vol % + 8% rel.)

Full Accuracy after warmup complete - O₂: (when RR ≤ 40) ± 3 vol %

Full Accuracy after warmup complete - CO₂: (when RR ≤ 40) ± 0.5 vol % or $\pm 12\%$ rel., whichever is greater

