

o_two™ Quick Guide

*From Setup to
Pain relief in seconds.*



eAdvantage®

Analgesic Gas Mixing and Delivering System

Before Use

- 1 Confirm patient is conscious, spontaneously breathing, and able to hold the mask or mouthpiece.
- 2 Review contraindications (e.g., pneumothorax, trapped air, head injury with impaired consciousness, abdominal obstruction, middle ear infection).
- 3 Ensure continuous supervision by trained healthcare staff.

Preparation and Setup

① Battery and power



- Insert a fully charged battery and hand-tighten the cap.



- If mains power is available, connect the external power supply.

② Gas Supply



- Connect O₂ hose → right-side input.



- Connect N₂O hose → left-side input.



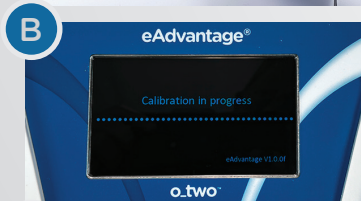
- Ensure O_2 and N_2O cylinders are upright, at least 25% full.
- Open the cylinders fully and slowly.
- Verify that input pressure is regulated between 43.5 and 72.5 PSI.

Start-Up

Turn ON the eAdvantage®



- A** Press and hold the Control Knob for 1 second until the green LED flashes rapidly.



- B** Wait for auto-calibration (≈ 5 –10 sec). Progress bar appears.



- C** The operation screen displays:

- Default gas mixture 50% N_2O / 50% O_2 .
- Battery status, time, settings, and unlocked icon
- No active alarms.

NOTE

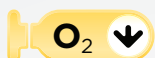
The device will not switch ON if $O_2 < 21$ PSI, or if valve/sensor failure is detected.

Alarms (Visual + Audible)

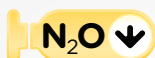


Medium-priority

Yellow LED (Check & Correct)



Low O₂ (35-21 PSI)



Low N₂O (35-21 PSI)

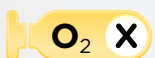


Low battery

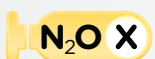


High-priority

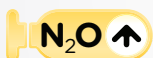
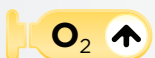
Red LED (Immediate Action)



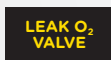
No O₂ (≤ 20 PSI) → device shuts OFF



No N₂O (≤ 20 PSI)



High O₂ / High N₂O (≥ 80 PSI)



Valve leak (O₂, N₂O, or both)



High O₂ / High N₂O (≥ 80 PSI)



Sensor failure

Operation



① Select Gas Mixture

- Rotate Control Knob to highlight the gas mixture.
- Press the knob → values flash.
- Rotate the knob to change gas mixture ratio (0/100 to 70/30 N₂O% / O₂%).
- Press the knob to confirm.



② Lock Settings (optional)

- Rotate to highlight lock symbol and press the knob.
- Enter passcode (default 000).
- To unlock, repeat the previous steps.



③ O₂ Flush Key (optional)

- Press and hold this key to deliver 100% O₂ at 40 L/min.
- Do not use it for positive-pressure ventilation of a non-breathing patient.



④ Patient Instructions

- Instruct the patient to inhale and exhale through the mask or mouthpiece.
- Once the patient stops inhaling, the gas flow ceases immediately.

Shutdown and Cleaning



- Press and hold the Control Knob for 4 second to turn OFF the device.
 - The device clears gas pathway automatically by delivering a 1-second 100% O₂ flush.



- Switch OFF gas cylinders.



- Disconnect the gas hoses and the patient circuit.



- Wipe the device and the gas hoses with mild soap or hard-surface disinfectant. Do not immerse.

NOTE

Do not attempt to clean and sterilize any components that are designated for single-patient use.



DISCLAIMER

This Quick Guide is intended as a simplified reference for health care providers. It is not a substitute for the full User Manual. For complete instructions on operation, safety, contraindications, maintenance, and troubleshooting, always consult the official User Manual for each device. All O-Two devices must be operated only by trained personnel and in accordance with local protocols, medical direction, and established clinical guidelines.

For full operational guidance, consult the complete manual at:

<https://otwo.com/wp-content/uploads/2025/09/eADVANTAGE-IFU-15PL1033-Rev17-MAY-2025.pdf>

www.otwo.com

45A Armthorpe Road, Brampton, ON, Canada, L6T 5M4

Telephone: +1 905 792-OTWO (6896) N.A. Toll Free: +1 800 387 3405

Facsimile: +1 905 799 1339 | resuscitation@otwo.com



MedNet EC-REP IIb GmbH Borkstrasse, 10
48163 Münster, Alemania

o_two controlled[™]
ventilation