



# NITRONOX PLUS<sup>®</sup> 50/50

FDA Cleared Nitrous Oxide and  
Oxygen Analgesia System

Help your patients relax

Nitrous oxide is a safe and effective sedative agent that is mixed with oxygen. Nitrous oxide is used during procedures and treatments to help your patients feel more comfortable.

## HOW DOES THE NITRONOX PLUS<sup>®</sup> WORK?

The Nitronox Plus<sup>®</sup> 50/50 system delivers a fixed 50% nitrous oxide (N<sub>2</sub>O) and 50% oxygen (O<sub>2</sub>) mixture which is inhaled through a mouthpiece or mask, providing your patients control through self-administration. The patients breathe normally through their mouth, and within a few short minutes they will start to feel the relaxing, anxiolytic effects of the gas mixture. The effects of nitrous oxide wear off within 5 minutes after the last inhalation of the N<sub>2</sub>O/O<sub>2</sub> mixture.

## APPLICATION RECOMMENDATIONS

The Nitronox Plus<sup>®</sup> 50/50 system is ideal for short, minimally invasive and non-invasive procedures where there is a need for pain management or minimal sedation:

- Bone Marrow Harvesting
- IV Starts/Blood Draws
- Joint Injections
- Lumbar Punctures
- Vein Procedures
- Hair Injections & Grafting
- Spine Procedures
- Botulinum Injections
- Incision and Drainage
- Cosmetic Procedures
- Fracture Reductions
- Urogenital Procedures
- Liposuction
- Childbirth
- Sutures
- CT Scans
- Intraosseous Injections

## BENEFITS

### Rapid Onset & Short-Acting

- Demand flow option is safe and provides patients with control over pain mitigation
- Reduce recovery time
- Improve throughput

### Improved Patient Care

- Relaxes and provide comfort for your patients
- Improves patient satisfaction scores
- Get patients back to normal activity faster

### Cost-Effective

- Low consumable cost
- Reduce staffing for patient monitoring
- Complete procedures more efficiently





PLYMOUTH  
MEDICAL

PORTER  
NITROUS SYSTEMS



## COMPETITIVE ADVANTAGES

1. The Nitronox Plus® 50/50 is made in the USA and built to last.
2. The Nitronox Plus® 50/50 has never had a recall; 510K FDA cleared K202480.
3. The Nitronox Plus® 50/50 device can be set to provide 100% oxygen to patients to flush their system of any residual nitrous oxide at the end of the procedure to help patients recover faster.
4. The Nitronox Plus® 50/50 offers additional safety features compared to similar systems on the market (Emergency Air Intake, Key Lock, Function Test Button).

## TECHNICAL + SAFETY INFORMATION

- **Oxygen Piloted Regulator (Failsafe)** – prevents flow of N<sub>2</sub>O without O<sub>2</sub>
- **Dual Seal Diaphragm Block** – reduces risk for leak or failure
- **Patient Self-Administered** – provides control over administration as the patient handheld supply valve is only activated by an inspiratory effort (inhalation); patient can stop inhaling N<sub>2</sub>O /O<sub>2</sub> mixture at any point
- **Visual Pressure Gauges** – confirm gas supply with three visual pressure gauges - N<sub>2</sub>O, O<sub>2</sub> + gas mixture
- **Audible Alarm** – alerts staff when either O<sub>2</sub> or N<sub>2</sub>O gas supply pressure drops to approx. 35 psi (2.41 bar)
- **Nitrous Oxide Regulator Check Valve (for 2-cylinder cart)** – prevents flow back out into the room from the hose when removing N<sub>2</sub>O regulator
- **Oxygen Enrichment Feature**– automatically increases O<sub>2</sub> concentration by an additional 15% in case of shallow breathing
- **Emergency Air Intake** – allows patient to pull in room air through breathing circuit should gas supply run out
- **100% Oxygen Capability** – flushes their system of any residual nitrous oxide at the end of the procedure
- **Internal, Accessible Demand Valve** – offers security and quick access for in-field servicing
- **Indexed Gas Line Connections and Cylinder Regulators** – prevents cross connection
- **Key Lock System** – renders device unusable and helps to deactivate device for compliance and safety
- **Function Test Button** – provides easy access for periodic safety and function tests
- **Optional Built-In Patented Scavenging Interface** – ensures the safe, effective removal of exhaled nitrous oxide, if needed
- **Quantifiable Exposure** – ensures certainty over N<sub>2</sub>O exposure with our available monitoring badges

Regulatory: K202480  
Class II breathing gas mixer

TEL – 888.392.5076  
FAX – 888.392.1455  
WEB – PLYMOUTHMEDICAL.COM

PLYMOUTH MEDICAL  
135 PLYMOUTH ST, SUITE 410  
BROOKLYN, 11201 NY