



MasterFlux Smart

Conscious sedation

The first cloud-based conscious sedation system with IOT technology



World



MasterFlux Smart

The first 4.0 electronic conscious sedation system



first!



100% Made in Italy





Tecno-Gaz leader in sedation for over 25 years has developed the Master Flux Smart, the first electronic conscious sedation system with advanced IOT connectivity, 100% Made in Tecno-Gaz.

MasterFlux Smart.

Wi-Fi connected. Unique in the world.



Display touch da 7"

- Electronic management 
- Interconnected IOT 
- Records and statistics 
- Usage data 

Master Flux Smart is the worldwide evolution of electronic sedation systems. A model that integrates the MasterFlux Plus range, ensuring that all users can choose the most suitable model for their needs.

Wi-Fi connection for easy interfacing in all situations



Ease of use



Consumption values available for consultation, USB export

Totally safe working

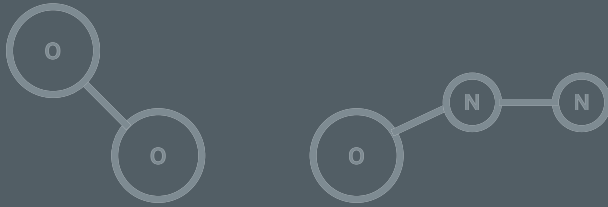


Mechanical-pneumatic safety devices and electronic control of delivery settings

User and patient profiling



Patient data, baseline records
Clinical medical usage data



Exhaled gas level display

(Option available in case of active aspiration connection to the aspiration of the chair)

On the MasterFlux Smart display it is possible to visualize the aspiration of the chair in liters per minute. In this way it is possible to regulate it by optimizing the flow breathed by the patient to make sedation even more effective, avoiding any dispersion of the exhaled gases into the environment.



CE
0425

Residual gas level display



Unique in the world, it displays the gas remaining in the cylinders in minutes of use

MasterFlux Smart.

The first interconnected "electronic"

MasterFlux SMART is a sophisticated electronic and mechanical engineering project with a proportioning delivery system. The electronic method enables precise adjustment of the flows by simply turning a proportioning dial. The result is a high-precision, highly reliable and easy-to-use product, interconnected to the cloud for data management (IOT).



Wi-Fi connection



MasterFlux Smart is equipped with Wi-Fi connectivity for easy interfacing in all situations.

Availability of data



MasterFlux Smart can save data and usage statistics both internally and remotely on cloud servers (can also be exported onto USB). Transfer of data on USB is possible as back up in case of an Internet connection failure. Data filing both via wi fi or USB is possible only in case an IOT contract has been activated.

Simple structure Intuitive controls



Advanced operator and patient profiling



You can choose to connect it to the cloud for management and consultation of patient flow data on Tecno-Gaz servers, or use it independently in non-connected mode



Patient list
Cylinder autonomy



Patient statistics

MasterFlux Smart

Conscious sedation is a technique that is widely used in dentistry. This is due to the huge commitment of Tecno-Gaz, which has been developing and manufacturing conscious sedation systems for over 30 years. Furthermore, Tecno-Gaz has long been committed to an ongoing, extensive training and information campaign, involving thousands of doctors in Italy and around the world.



Calming feature

MasterFlux Smart is designed to create a pleasant, calm experience. The cylinders are fully concealed inside the device. This avoids creating a negative visual impact on patients.



MasterFlux Smart

Why sedation is essential

Conscious sedation is essential in clinics where surgery/implantology is carried out, and where children, difficult or disabled patients are treated. This treatment is also of great help to the periodontologist, hygienist, or in prosthetics and when taking impressions.

Conscious sedation is now a service that all practices should offer. It is an indispensable aid in all types of surgical and implantological procedures, as well as a system that helps patients deal with dental treatment calmly and with maximum cooperation. Conscious sedation is also a technique that helps practitioners work in the most effective way, especially in cases involving difficult patients, for example children, patients with phobias, disabilities etc.

Simple

Safe

Suitable
for all



Benefits for the dentist

- Easy to use
- Suitable for all patients
- Extremely safe method
- Reduced chairside stress for the practitioner
- Reduced chair time for the practitioner

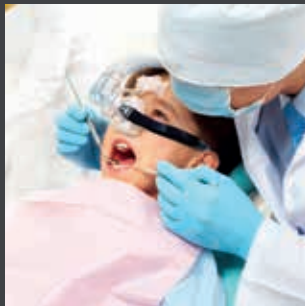
Benefits for the patient

- Maximum cooperation
- Reduced perception of pain
 - Positive experience
 - Immediate recovery



Implantology and surgery

Implantological and dental operations are often lengthy procedures. Conscious sedation removes the perception of time, which results in increased patient cooperation and therefore makes the work of the dentist easier, quicker and less stressful.



Pediatric dentistry

Pediatric dentistry is perhaps the branch that gains the most benefit from inhaled conscious sedation. This is considered the safest, most effective method of conscious sedation in paediatric dentistry, and is therefore the preferred conscious sedation technique used in the dental clinic.



Patients with phobias

Fear of the dentist in adult patients is one of the main reasons why patients neglect their oral health. Conscious sedation helps patients undergo dental treatment by reducing anxiety and fear. This makes the dental appointment more pleasant and relaxing.



Patients with special needs

These are patients with systemic diseases, severe physical or mental disabilities, or multiple disorders. They are patients who therefore require special precautions, so that the dental treatment can be carried out in a way that is comfortable for them and calm for the dentist. Sedation is a particularly good treatment for putting these patients at ease.

Advanced functionality and ease of use

MasterFlux Smart is equipped with a number of safety features, both on the device itself and on the delivery circuits. It is easy to use and allows the professional to work in complete peace of mind.

Nitrous oxide supply shutdown



When the pressure in the Oxygen cylinder falls to zero (no Oxygen), the nitrous oxide gas supply is automatically switched off.

Non-return valve



A special non-return valve prevents the outgoing gas from re-entering the circuit. There is also a special device that allows the patient to breathe atmospheric air in the event of a gas failure.

Pressure reducers



The pressure reducers that connect the flow meter box and the cylinders have been mounted inside the device so that they are not visible to the patient. The assembly has been safely designed to avoid any interchange between the reducers of the two gases, both to the cylinder and to the box flow meter.

Minimum Oxygen concentration



Guaranteed minimum Oxygen concentration in the gas mixture supply, as there is always at least 30% Oxygen available; this guards against the risk of hypoxia and anoxia.

Automatic gas proportioner



The system has been designed to assure quick and easy administration of gas flow. By pressing the O₂ button, we quickly set the correct oxygen flow for the patient in liters per minute, depending on their breathing capacity. The N₂O button allows you to adjust the % of nitrous oxide automatically ranging from 0% to 70%. The color display has been designed to allow a quick and easy reading of liters per minute and gas flows.



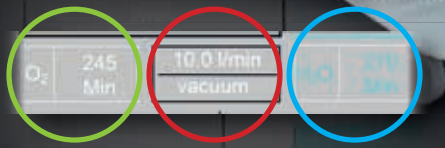
Smart power supply



Mains power supply with charger function



Battery powered for maximum portability (approximately 6 hours autonomy)



Delivery settings



Display of electronically controlled settings

Autonomy display



Function for calculating and displaying remaining cylinder capacity in minutes

Exhaled gas management



Optimisation of intake flow-exhaled gas discharge flow (adjustable)

MasterFlux Smart

Simple and intuitive, just a...touch away!



The following data are displayed during sedation:

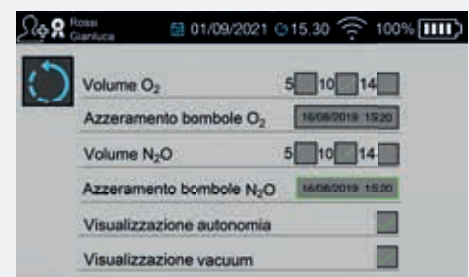
- 1 **Patient**
- 2 **Base Line**
"Save" button displayed if value has not been previously set
- 3 **Total flow** (pressing on flow alternates display of individual flows)
- 4 **Cylinder autonomy**
the value expressed in litres is converted into minutes during delivery
- 5 **Flow of % N₂O / O₂**
- 6 **Aspiration of dental unit**
If displayed, indicates flow in the event of active suction
- 7 **Bar**
% N₂O / % O₂
- 8 **Delivery / Recording**
Red dot when recording session data
- 9 **% N₂O / O₂**
Pressing alternates between O₂ and N₂O



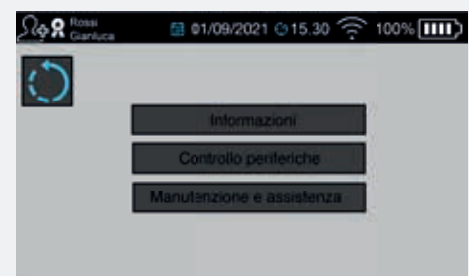
Intuitive, easy to consult menu



When changing the cylinder, counter reset to find residual values in minutes of use



Remote control functionality for Service



Internet connection for recording data on Tecno-Gaz server and online consultation



MasterFlux Smart

the first sedation device with IOT



Real time control



Backup of data
and statistics

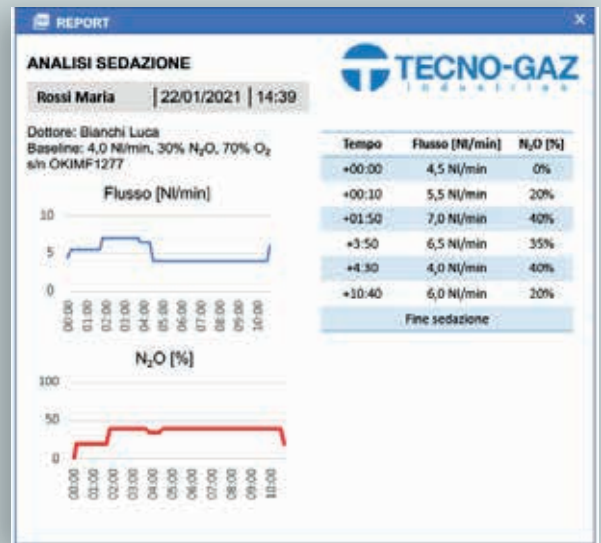


Accessible
from anywhere





Patient statistics



Call up statistics by name or date



Patient personal data

ANAGRAFICA PAOLO DECO

Cognome: Deco
 Nome: Paolo
 Data di nascita: 24/12/1966
 Sesso: M
 Peso (kg): 86
 Altezza (cm): 170
 Numero di telefono: *****
 E-mail: *****



Percentages of use and patient statistics



MasterFlux Smart

Advantages of the Intelliflux system

With the Intelliflux system, the coupled circuit tubes can be placed above the patient's head, on the right or left side. This enables the dentist to work comfortably on the area to be treated, without the tubing getting in the way.

Pleasant treatment

1



The sedated patient has a pleasant experience, breathing through a mask that leaves no marks on the face. Total stability guaranteed by frontal support, elastic band and mask-to-headrest locking system.

Maximum stability

2



Extremely stable masks due to the rigid polycarbonate central body and soft silicone profile, providing stability and avoiding leakage.

Operational ergonomics

3



Perfectly suitable for working with 4 hands. The circuit junction is located above the patient's head and does not create any obstacles to treatment. It is suitable for all dental practices with a focus on surgery.

Minimum oxygen concentration

4



The perfect fit of the masks, which adapt to any facial shape, enable faster, more efficient conscious sedation. Rigid polycarbonate central body + soft silicone profile for maximum grip and stability.

No leakage into the environment

5



Intelliflux System

New generation circuit and masks



Safety



Intelliflux prevents gas leakage into the environment

Simplicity



Easy-to-install tubing with anti-stretch system

Practicality



Tubes do not get in the way when working with 4 hands

IntelliFlux System

New generation circuit and masks



LATEX FREE



1

Patient frontal area **support**

2

Soft, adaptive membranes to facilitate breathing

3

Gas outlet with non-return valve

4

Gas inlet with non-return valve

5

Polycarbonate frontal body, zero leakage and safety for the practitioner

Ergonomics



Perfect adaptation to the surface of the face that prevents gas leakage into the environment

Hygiene



Autoclavable masks for maximum hygiene

Comfort



Silicone profile suitable for all face types, does not leave marks and ensures total comfort

Intelliflux System Accessories

+ Sterilisable

Masks suitable for all patients

Autoclavable at 134°C. Minimum: 30 cycles



1-XS

Art. MF835ZMF



2-S

Art. MF836ZMF



3-M

Art. MF837ZMF



4-L

Art. MF838ZMF

+ Sterilisable

One size silicone frontal support and nasal profile in various sizes. Optional spare parts.

Autoclavable at 134°C. Minimum: 30 cycles



1-XXS

Art. 2ZMFA0050

2-XS

Art. 2ZMFA0051

3-S

Art. 2ZMFA0052

4-M

Art. 2ZMFA0054

+ Not sterilisable

Elastic band with plastic hooks

Art. 2ZMFA0046



Mounting kit on dental unit

Art. 3MEDT0007+1ZMFA0064



+ Not sterilisable

Tube length 1.8 metres

Art. 3MEDT0006



Sterilisable

Tube length 1.5 metres

Autoclavable at 134°C. Minimum: 30 cycles

Art. 3MEDT0018

Not sterilisable

Disposable 50-metre tube with pre-specified lengths

Art. 3MEDT0019



MasterFlux *Plus* or MasterFlux *Smart*?

You choose the most suitable model for your clinic



	MasterFlux Plus	MasterFlux Smart
Operational safety	✓	✓
Wi-Fi connected	✗	✓
Dedicated Cloud	✗	✓
Intelliflux System Circuits	✓	✓
Residual gas display	Analog	Digital
Patient-practitioner records	✗	✓
USB export	✗	✓
Training for use	✓	✓
Electronic power supply	✗	✓
Pneumatic supply	✓	✗



10,0 00
2 2
30 10.0 ppm
50 ppm

TECNO-GAZ

SILVERLINE

ARTIBAC

MasterFlux Smart

Conscious sedation

EN 
1st Edition

The first cloud-based conscious sedation system with IOT technology



Dimensions - mm - LxHxP

410 x 1230 x 590

Weight without cylinders

47 kg

Max. cylinder height

950 mm

Cylinder diameter

140 mm



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Tecno-Gaz Spa.

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