

# O<sub>2</sub>matic

## O2MATIC CONNECTIVITY

AUTOMATIC HOME OXYGEN TREATMENT



Automatic titration has improved oxygen treatment at hospitals, and O2matic is now introducing the technology outside hospitals too.

## O2MATIC CONNECTIVITY

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O2matic Connectivity connects patients in home oxygen treatment with their healthcare provider.

Due to the experiences from use of automatic oxygen therapy at hospitals, we see following possible advantages:

### For the patient

- Individualized treatment.
- Increased patient safety and convenience. 1,2
- Adjusting oxygen to the patient's needs can reduce headache and confusion caused by hypoxemia.
- Increased quality of life.
- Reduce the need of physical contact to the healthcare provider.

### For the healthcare provider

- The ability to adjust the prescription for oxygen treatment centrally in e.g., hospitals.
- Increased safety and quality by automatic adjustments of oxygen.
- Increased patient safety. 1,2
- Real time monitoring of the patient through O2Portal.
- Measuring level of patient compliance to treatment.
- Transferring patient data to hospital systems through a secure interface and based on HL7-standard.
- The solution is CE marked and is based-on Microsoft Azure platform.

## O2MATIC HOT 100

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Today a patient treated with long term oxygen therapy receives a fixed dose of oxygen, which is usually only adjusted 2-4 times a year. With O2matic Home Oxygen Therapy, HOT, we introduce a new way to treat patients with oxygen at home.

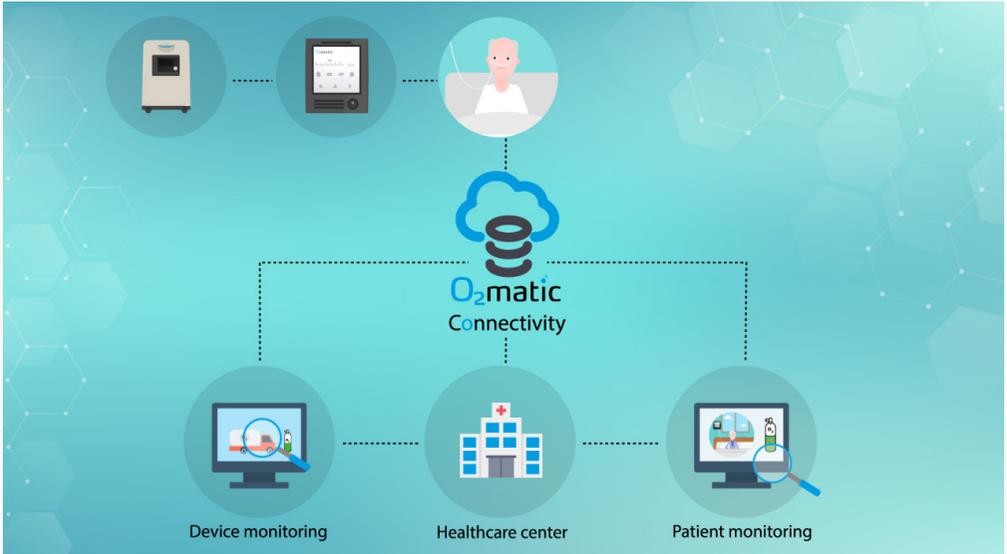
O2matic HOT 100 monitors and titrates oxygen based on the condition of the patient and prescription from the medical staff and is directly connected to the oxygen source either a cylinder or a concentrator and the patient's preferred nasal catheter or mask. The system also has the option of connecting additional wireless equipment e.g., scale, spirometer, blood pressure device and transfer the data to the cloud. HOT 100 is very flexible and can also work stand-alone if there is no access to a network.

O2matic HOT 100 has advanced software and AI (Artificial Intelligence) that ensures an innovative and unique treatment, which is recognizable from the patient's hospital course. This patent-pending solution ensures that the patient does not have to become immobile by continuously wearing a sensor. Instead, the patient must take a measurement 2-5 times a day, which takes between 7-20 minutes. O2matic HOT 100 manages the rest and ensures that the patient receives the right oxygen supplement, and at the same time sends data to the central system. HOT 100 is intended for the treatment of patients over 18 years receiving oxygen therapy at home (LTOT).

## USABLE IN TREATMENT OF

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- Chronic Obstructive Pulmonary Disease, COPD
- Pulmonary Fibrosis
- Heart Failure
- Lung Cancer
- COVID-19
- Other Pulmonary Diseases



## MONITORING

The measurements can be transferred through our secure cloud solution to e.g., the hospitals own IT system. It is also possible to access the data through O2matic Portal that provides an overview of the:

Measured SpO<sub>2</sub>, pulse and oxygen flow

Level of compliance to treatment

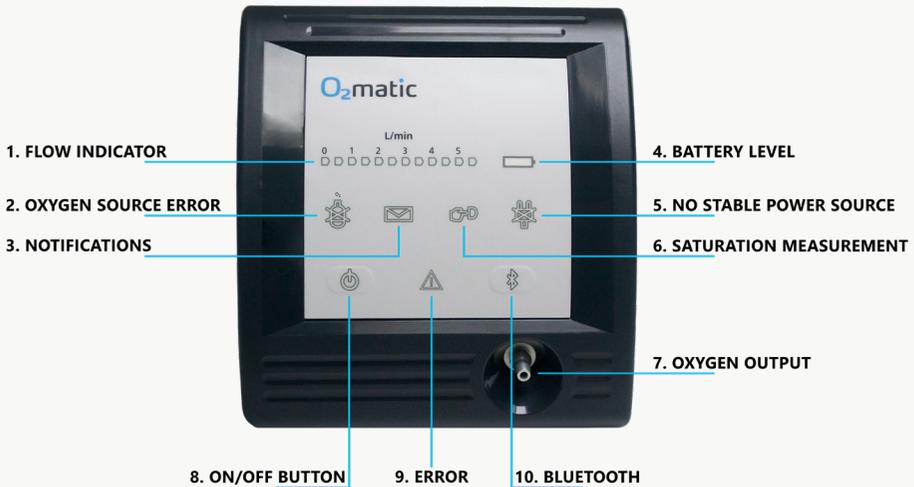
Time between measurements

Graphical overview and trends

And more sensors can be added to the system and new parameters can easily be monitored, if needed.



# PRODUCT SPECIFICATION



O2matic HOT 100 is an IIB-classed medical device and is CE marked by TÜV SÜD.  
O2matic ApS is ISO13485 certified.



## Physical

Weight	704g
Dimensions	150x100x150mm
Connection	Bluetooth

## Electrical

Main	120-240 VAC, 50/60 Hz
DC input	12 VDC
Battery type	Lithium ion
Battery capacity	4 hours
Input pressure	Up to 100 PSI (6 bar)

# ABOUT O2MATIC

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We are a Danish ISO13485 certified medtech company specializing in developing, producing and selling respiratory technology.

Our mission is to work closely with patients, hospitals, and research centers to develop innovative and sustainable respiratory solutions for the benefit of patients. We are a global company, and we work closely with our local partners to provide the best service to customers. In 2020 O2matic received the Innovation Fund Denmark's Grand solution award and the European Commission's Seal of Excellence.

## CONTACT INFORMATION



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1. Hansen EF, Hove JD, Sandau Bech C et al. Automated oxygen control with O2matic® during admission with exacerbation of COPD. *Int J Chron Obstruct Pulmon Dis.* 2018;13:3997-4003.
2. Hansen EF, Bech CS, Vestbo J, et al. Automatic oxygen titration with O2matic to patients admitted with COVID-19 and hypoxemic respiratory failure. *Eur Clin Respir J.* 2020; 7: 1833695.