

# Quick Guide

## Advanced Monitoring

### $\text{FiO}_2$ - $\text{SpO}_2$ - $\text{tcCO}_2$



This guide does not  
replace the User Manual

Intended for all the people  
authorized to adjust settings

English

One of the advantages of the EO-150 is that it enables advanced ventilation monitoring. It is possible to attach optional accessories for monitoring  $\text{FiO}_2$ , pulse oximetry and transcutaneous capnography.

## $\text{FiO}_2$ monitoring

The EO-150 ventilator can be used with an optional  $\text{FiO}_2$  sensor with min and max concentration alarms. This sensor should always be used to ensure prescribed oxygen concentration is delivered to the patient.

Supplemental oxygen can be delivered to the patient within the limit of 20L/min. Start ventilation before turn ON the oxygen flow. And turn OFF the oxygen flow before stop the ventilation.

In order to monitor the fraction of inspired oxygen ( $\text{FiO}_2$ ) it is necessary to connect:

- $\text{FiO}_2$  kit cable: O2CELCBL
- $\text{FiO}_2$  cell: ENVITEC OOM102-1 or equivalent
- T-cell adapter: ENVITEC 46-006005 or equivalent

### Attach the $\text{FiO}_2$ sensor

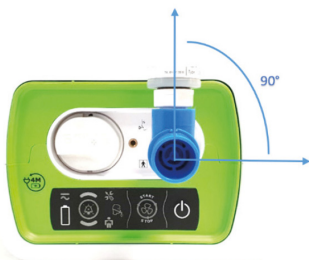
- 1 Plug the  $\text{FiO}_2$  cable into the  $\text{FiO}_2$  port.



- 2 Plug the  $\text{FiO}_2$  sensor into the other end of the  $\text{FiO}_2$  cable.

- 3 Attach the T-adaptor to the inspiratory patient port.

The cell must be positioned vertically in order to obtain the most reliable measurement of  $\text{FiO}_2$ .

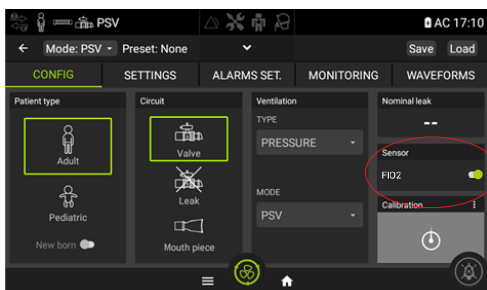


**Note:** the  $\text{FiO}_2$  cell and T-adaptor are not sold by EOVE, check the user manual for more information.

- 4 Plug the  $\text{FiO}_2$  sensor into the T-adaptor.

### ATTENTION

Activate the  $\text{FiO}_2$  sensor in CONFIG to obtain  $\text{FiO}_2$  monitoring. When activated, the sensor is calibrated and must be in ambient air (21%), that is, without supplementary oxygen.



**Note:** a tolerance of 5% can be observed between the  $\text{FiO}_2$  measurement and the oxygen concentration received by the patient.

# Oximetry monitoring (SpO<sub>2</sub>)

The EO-150 ventilator provides the possibility of monitoring SpO<sub>2</sub> via optional accessories.

It is necessary to connect:

- Nonin XPOD cable: EO-SPO2CBL
- Finger sensor according to patient profile:  
only use compatible Nonin finger pulse sensors.

## Attach the SpO<sub>2</sub> sensor

- 1 Connect the Nonin finger sensor selected on the Nonin XPOD cable.
- 2 Connect the plug of the Nonin XPOD cable to the SpO<sub>2</sub> connector at the rear of the device.
- 3 Connect the sensor to the selected patient finger.



**Nonin XPOD  
cable**  
EO-SPO2CBL

### ATTENTION

To remove the cable, pull firmly on the locking ring. Do not twist.

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**Note:** the Nonin sensors are not sold by EOVE.

If used in conjunction with the Sentec monitor, the SPO<sub>2</sub> and heart rate signal will be taken from the Nonin sensor.

# CO<sub>2</sub> Transcutaneous monitoring (tcCO<sub>2</sub>)

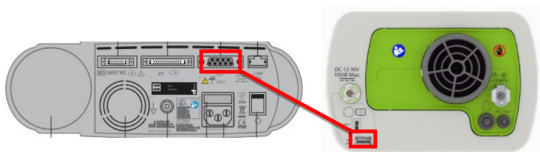
The EO-150 ventilator provides the possibility of monitoring tcCO<sub>2</sub> via optional accessories like Sentec PCO<sub>2</sub> monitor.

It is necessary to connect a Sentec PCO<sub>2</sub> monitor:

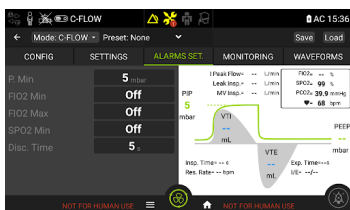
- RS323 / USB converter cable (for more technical information check the User's Manual)
- tcCO<sub>2</sub> sensor according to patient profile: only use compatible SENTEC sensors.

## Attach the Sentec PtCO<sub>2</sub> monitor

- 1 Turn on the Sentec Monitor and the EO-150 ventilator.
- 2 Connect the RS232 / USB converter to the USB\_1 port inlet of the EO-150.



- 3 Check if the status for the Sentec device is "CONNECTED" in the Menu (Information Tab).
- 4 Perform the calibration of the PtCO<sub>2</sub> sensor and adjust it on the patient according to Sentec instructions.
- 5 The measurement starts to be displayed on the EO-150 as the Sentec monitor validates it.
- 6 After completing the measurements, the sensor must be calibrated and the EO-150 will calculate the correction for the drift in the PtCO<sub>2</sub> measurement, which should remain connected to the monitor.



**Note:** It's recommended to create a new data file in EOZ form immediately after the second PtCO<sub>2</sub> sensor calibration (for more technical information check the User's Manual).

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EO-150 provides continuous or intermittent ventilation support for adults and children weighing at least 3.5 kg needing mechanical ventilation, at home, in a facility or hospital, and in portable environments, for invasive or non-invasive ventilation.

Medical device class IIb - CE 0459 - Manufactured by EOVE. Please read the user manual.