



**SEKARGUNA MEDIKA**



**BROCHURE  
SENTEC**

# Digital Monitoring System Sentec

Product Name : Digital Monitoring System  
Merk : Sentec  
Types of Products : Sentec Digital Monitor  
Kemenkes RI AKL : 20402027726

# sentec

## Feature

### Overcoming limitations of arterial blood gases, etCO<sub>2</sub> and SpO<sub>2</sub> monitoring

Assessing ventilation in neonatal patients is a challenge. Maintaining normal PaCO<sub>2</sub> ranges in neonates is important as abnormal PaCO<sub>2</sub> values may have detrimental effects on neonates' brain and lungs. Neonates in critical care units often have fluctuations of PaCO<sub>2</sub><sup>1</sup>.

#### Arterial blood gas sampling

provides only a snapshot every few hours and bears the risk of invasiveness, especially in neonatal patients<sup>2</sup>, and is painful.

#### End-tidal CO<sub>2</sub> (etCO<sub>2</sub>) monitoring

is sometimes inefficient in patients with small tidal volumes<sup>3</sup> and inapplicable in certain ventilation modes such as HFO<sup>4</sup>.

#### Measuring SpO<sub>2</sub> alone

is not sufficient to detect hyperventilation or hypoventilation. Changes of arterial CO<sub>2</sub> levels can never be detected by SpO<sub>2</sub> monitoring alone.



## Dedicated to neonatal needs

SenTec digital transcutaneous (tc) sensors provide continuous and accurate measurements, supporting healthcare professionals to monitor ventilation in neonates. For better patient outcomes where it matters most.

#### V-Sign™ Sensor PCO<sub>2</sub>

PCO<sub>2</sub> measured by a Stow-Severinghaus type electrode.

- reliable and safe
- clinically trusted for more than 10 years



#### Set baseline and markers

Set a baseline just before changing the treatment to assess the impact on the patient's ventilation. User profiles

#### User profiles

Quickly adapt settings to your needs: select individually customized profiles stored in the monitor.

#### Trendlines allow early detection of ventilation changes

Estimates of PaCO<sub>2</sub> in trendline, baselines and delta values.

#### Relative Heating Power

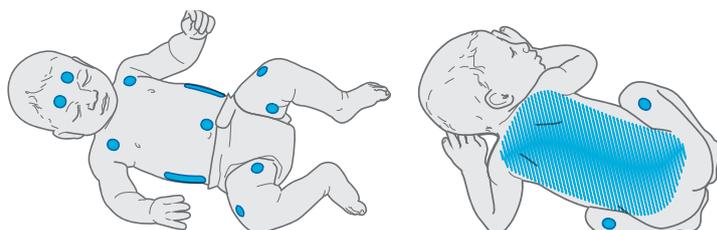
RHP shows the required heating power to keep the sensor at a set temperature. Changes of RHP may be attributable to changes in perfusion.



#### Different display options:

- tcPCO<sub>2</sub> and heating power trends
- baseline and delta values

#### Select from multiple recommended measurement sites



## Effective and efficient monitoring

### Smart CalMem

Disconnect the sensor (e.g. to untangle cables or to move the patient) without removing the sensor from the patient. No need to recalibrate the sensor when re-connecting.



### Automatic calibration management

Simply store the sensor in the Docking Station – calibration is fully automatic. Within a few minutes, "Ready for Use" status is established and maintained until the sensor is applied to the patient.

### Transportable

Lightweight, dedicated mounting plates / roll stands, and battery life up to 10 hours.

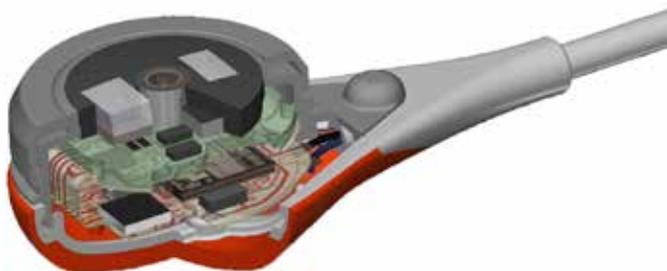
## Reliable and safe

### Automatic artifact detection

Automatic data quality verification and artifact detection

### Best signal quality

Digital Sensor with integrated CPU. Measured signals are digitized and preanalyzed in the sensor head for the best signal quality.



## V-SIGN™ Sensor 2

### CARBON DIOXIDE TENSION AND PULSE OXIMETRY SENSOR

- Digital Sensor
- Noninvasive and continuous measurement of  $tcPCO_2$ , pulse oximetry ( $SpO_2$ , PR) and relative heating power (RHP)
- Suitable for adult, pediatric, and neonatal patients
- Reusable, waterproof
- To be attached to the patient with «MAR-MI», «MAR-SF» or Ear Clip
- Includes 1 single Clothing Clip (SC-CC)
- To be connected to the «SDM» with a «Digital Sensor Adapter Cable» (AC-XXX)



## OxiVent™ Sensor

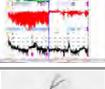
### CARBON DIOXIDE TENSION, OXYGEN TENSION AND PULSE OXIMETRY SENSOR

- Digital Sensor
- Noninvasive and continuous measurement of  $tcPCO_2$ ,  $tcPO_2$ , pulse oximetry ( $SpO_2$ , PR) and relative heating power (RHP)
- Suitable for adult, pediatric, and neonatal patients • Reusable, waterproof
- To be attached to the patient with «MAR-MI», «MAR-SF» or Ear Clip
- Includes 1 single Clothing Clip (SC-CC)
- To be connected to the «SDM» with a «Digital Sensor Adapter Cable» (AC-XXX)



# Accessories to Sentec

## Accessories to Sentec

No	Picture	Product Name	Code	Description
1		SenTec Digital Monitor	SDM	Stand-alone patient monitor
2		V-Sign™ Sensor 2	VS-A/P/N	Digital carbon dioxide tension and oximetry sensor
3		OxiVen™ Sensor	OV-A/P/N	Digital carbon dioxide tension, oxygen tension and oximetry sensor
4		Digital Sensor Adapter Cable	AC-XXX	Adapter cable to connect digital SenTec sensors to the SenTec Digital Monitor
5		Ear Clip	EC-MI	Single use sensor application ear clip, recommended for adult, pediatric and neonatal patients w/mature
6		Multi-Site Attachment Ring for mature/ intact skin	MAR-MI	Single use sensor application ring, recommended for adult, pediatric and neonatal patients w/mature
7		Multi-Site Attachment Ring Easy for mature/ intact skin	MARe-MI	Single use sensor application ring, recommended for adult, pediatric and neonatal patients w/mature
8		Multi-Site Attachment Ring for sensitive/fragile skin	MAR-SF	Single use sensor application ring, recommended for adult, pediatric and neonatal patients w/sensitive
9		Multi-Site Attachment Ring Easy for sensitive/fragile skin	MARe-SF	Single use sensor application ring, recommended for adult, pediatric and neonatal patients w/sensitive
10		Staysite™ Adhesive for Multi-Site Attachment Rings	SA-MAR	Single-use adhesive for Multi-Site Attachment Rings
11		Membrane Changer	MC-R	Membrane change tool, reloadable
12		Membrane Changer Insert	MC-I	Separately bagged, single-use inserts for Membrane Changer (MC-R)
13		Service Gas	GAS-0812	Calibration gas for docking station, cylinder of 0.56 l at 9.5 bar
14		Contact Gel	GEL-04	Contact gel for SenTec transcutaneous sensors, bottle of 5 ml
15		Single Dose Contact Gel	GEL-SD	Contact gel for SenTec transcutaneous sensors, single-dose vials of 0.3 g each
16		V-STAT™	V-STATS_CD	PC based download, data analysis, remote monitoring, and monitor management software
17		PSG Adapter Cable	PSG Cable A to PSG Cable X	Adapter Cable to interface the SDM to Polygraphs (PG) or Polysomnographs (PSG)
18		SDM Water protection cover	SDM_WPC	This cover will protect the SenTec Digital Monitor (SDM) from dripping water when the device is tilted up to 15° (IPX2)

# V-Sign™ Sensor 2

Product Name : V-Sign™ Sensor 2  
Merk : Sentec  
Types of Products : VS-A/P/N  
Kemenkes RI AKL : 20402027726

sentec

## Feature

### CARBON DIOXIDE TENSION AND PULSE OXIMETRY SENSOR

- Digital Sensor
- Noninvasive and continuous measurement of  $tcPCO_2$ , pulse oximetry ( $SpO_2$ , PR) and relative heating power (RHP)
- Suitable for adult, pediatric, and neonatal patients
- Reusable, waterproof
- To be attached to the patient with «MAR-MI», «MAR-SF» or Ear Clip
- Includes 1 single Clothing Clip (SC-CC)
- To be connected to the «SDM» with a «Digital Sensor Adapter Cable» (AC-XXX)



# OxiVent™ Sensor

Product Name : OxiVent™ Sensor  
Merk : Sentec  
Types of Products : OV-A/P/N  
Kemenkes RI AKL : 20402027726

sentec

## Feature

### CARBON DIOXIDE TENSION, OXYGEN TENSION AND PULSE OXIMETRY SENSOR

- Digital Sensor
- Noninvasive and continuous measurement of tcPCO<sub>2</sub>, tcPO<sub>2</sub>, pulse oximetry (SpO<sub>2</sub>, PR) and relative heating power (RHP)
- Suitable for adult, pediatric, and neonatal patients • Reusable, waterproof
- To be attached to the patient with «MAR-MI», «MAR-SF» or Ear Clip
- Includes 1 single Clothing Clip (SC-CC)
- To be connected to the «SDM» with a «Digital Sensor Adapter Cable» (AC-XXX)



# Standard / Neonatal Starter Set

Product Name : Standard / Neonatal Starter Set  
Merk : Sentec  
Types of Products : EC-MI, MARE-MI, MARE-SF, MC-R, GAS-0812, GEL-04  
Kemenkes RI AKL : 20402027726

sentec

## Feature

### Ear Clip (EC-MI)

- Single patient use ear clips
- For attachment of SenTec TC Sensors to the patient's earlobe
- Suitable for adult, pediatric and neonatal patients
- Mature, intact skin and earlobes of sufficient size



### Multi-Site Attachment Ring Easy for Mature / Intact Skin (MARE-MI)

- Single use sensor application ring
- Recommended for adult, pediatric and neonatal patients w/mature



### Multi-Site Attachment Ring Easy for Sensitive / Fragile Skin (MARE-SF)

- Single use sensor application ring
- Recommended for adult, pediatric and neonatal patients w/sensitive



### Membran Changer (MC-R)

- Membrane change tool
- Reloadable
- Economic and cost saving due to «reloading option» with Membrane Changer Inserts (MC-I)



### Service Gas (GAS-0812)

- Required for the calibration of SenTec TC Sensors
- One Service Gas cylinder lasts up to 3 to 4 weeks (depending on usage of the «SDMS»)
- Components: CO<sub>2</sub> (carbon dioxide), O<sub>2</sub> (oxygen), Balance N<sub>2</sub> (nitrogen)



### Contact Gel (GEL-04)

- For The Application of Sentec TC Sensors
- Contact gel for SenTec transcutaneous sensors
- Bottle of 5 ml
- Viscous liquid



# Multi-Site Attachment Ring for Sensitive / Fragile Skin

Product Name : Multi-Site Attachment Ring for Sensitive / Fragile Skin  
Merk : Sentec  
Types of Products : MAR-SF  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Single-use attachment ring
- For use with sentec TC sensors
- For attachment of SenTec TC Sensors to various measurement sites
- Suitable for neonatal, pediatric and adult patients
- Sensitive (fragile) but intact skin



# Ear Clip

Product Name : Ear Clip  
Merk : Sentec  
Types of Products : EC-MI  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Single-patient use ear clips
- For use with sentec TC sensors
- For attachment of SenTec TC Sensors to the patient's earlobe
- Suitable for Adult, pediatric and neonatal patients
- Mature, intact skin and earlobes of sufficient size



# Single Dose Contact Gel

Product Name : Single Dose Contact Gel  
Merk : Sentec  
Types of Products : GEL-SD  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Contact gel for SenTec transcutaneous sensors
- Single-dose vials of 0.3 g each



# Contact Gel 5 ml

Product Name : Contact Gel  
Merk : Sentec  
Types of Products : GEL-04  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Contact gel for SenTec transcutaneous sensors
- For the application of sentec TC sensors
- Viscous liquid
- For proper conduction of transcutaneous blood gases from the patient's skin to SenTec TC Sensors
- Instead of the Contact Gel you may also use clean tap water, sterile water or sterile saline solution
- Bottle of 5 ml
- Instead of the Contact Gel you may also use clean tap water, sterile water or sterile saline solution



# Service Gas

Product Name : Service Gas  
Merk : Sentec  
Types of Products : GAS-0812  
Kemenkes RI AKL : 20402027726

# sentec

## Feature

- Calibration gas for docking station
- Cylinder of 0.56 l at 9.5 bar
- Required for the calibration of SenTec TC Sensors
- One Service Gas cylinder lasts up to 3 to 4 weeks (depending on usage of the «SDMS»)
- Components:
  - CO<sub>2</sub> (carbon dioxide)
  - O<sub>2</sub> (oxygen)
  - Balance N<sub>2</sub> (nitrogen)
- Pressurized containers are considered as dangerous goods. Costs related to handling of dangerous goods during shipment (in particular for air freight) may arise



# Membrane Changer

Product Name : Membrane Changer  
Merk : Sentec  
Types of Products : MC-R  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Reloable tool to change the membrane
- Of sentec TC Sensors
- Membrane change process by 4 simple press-and-turn steps
  - Old sensor membrane removal
  - Sensor surface cleaning
  - Application of new electrolyte
  - Application of new sensor membrane
- Economic and cost saving due to «reloading option» with Membrane Changer Inserts (MC-I)



# Membrane Changer Insert

Product Name : Membrane Changer Insert  
Merk : Sentec  
Types of Products : MC-I  
Kemenkes RI AKL : 20402027726

sentec

## Feature

- Separately Bagged, Single-Use Inserts
- For The Membrane Changer
- Required to reload a used Membrane Changer prior reuse

