

# LEADING INNOVATOR OF ECG ELECTRODES



Ambu® Cardiology Catalogue

**Ambu**

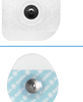
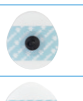
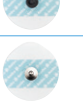
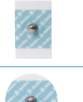
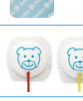
|           |                                            |           |                                                         |
|-----------|--------------------------------------------|-----------|---------------------------------------------------------|
| <b>04</b> | <b>Portfolio Introduction</b>              | <b>12</b> | <b>Holter, Event Recording and Long-term Monitoring</b> |
| 04        | BlueSensor Portfolio                       | 15        | BlueSensor L                                            |
| 05        | WhiteSensor Portfolio                      | 13        | BlueSensor VL                                           |
| 06        | Ambu® electrodes – quality in every aspect | 13        | BlueSensor VLC                                          |
| 07        | BlueSensor & WhiteSensor descriptions      | 14        | WhiteSensor 4440                                        |
|           |                                            | 14        | WhiteSensor CMM/1                                       |
| <b>08</b> | <b>BlueSensor Key Features</b>             | <b>16</b> | <b>Stress Test</b>                                      |
| 08        | Offset connector                           | 17        | BlueSensor R                                            |
| 08        | Double ring adhesive                       | 17        | BlueSensor SP                                           |
| 08        | Wet gel                                    | 17        | BlueSensor T                                            |
| 08        | Ag/AgCl sensor                             | 18        | WhiteSensor 4560M                                       |
|           |                                            | 18        | WhiteSensor 3351/RT                                     |
| <b>09</b> | <b>Resting ECG / 12-lead ECG</b>           |           |                                                         |
| 10        | BlueSensor SU                              |           |                                                         |
| 10        | BlueSensor 2300                            |           |                                                         |
| 11        | WhiteSensor 4530                           |           |                                                         |
| 11        | WhiteSensor 4540                           |           |                                                         |
| 11        | WhiteSensor 0315M                          |           |                                                         |
| 11        | WhiteSensor 0415M                          |           |                                                         |
| 11        | WhiteSensor 0715M                          |           |                                                         |

|           |                              |           |                              |
|-----------|------------------------------|-----------|------------------------------|
| <b>19</b> | <b>Short-term Monitoring</b> | <b>29</b> | <b>Paediatric Monitoring</b> |
| 20        | BlueSensor M                 | 30        | BlueSensor P                 |
| 20        | BlueSensor Q                 | 30        | BlueSensor N                 |
| 20        | BlueSensor QR                | 31        | Whitesensor 0215M            |
| 21        | WhiteSensor 4500M            | 32        | Whitesensor 40713            |
| 21        | WhiteSensor 4500M-H          | 32        | Whitesensor WSP25            |
| 21        | WhiteSensor 4535M            | 32        | Whitesensor WSP30            |
| 22        | WhiteSensor 4841P            | 32        | Whitesensor 4831Q            |
| 22        | WhiteSensor 7841P            | 33        | Whitesensor 4570M            |
| 22        | WhiteSensor 4200             |           |                              |
| 22        | WhiteSensor 4300             |           |                              |
| 23        | WhiteSensor WS               | <b>34</b> | <b>Accessory</b>             |
| 23        | WhiteSensor WS/RT            | 34        | Skin Fix                     |
|           |                              | 34        | Skin Prep                    |
|           |                              | 35        | Snap Clip                    |
|           |                              | 35        | Multi Clip                   |
| <b>24</b> | <b>Neonatal Monitoring</b>   | <b>36</b> | <b>Ambu Profile</b>          |
| 25        | BlueSensor NEOX              |           |                              |
| 26        | BlueSensor BR                |           |                              |
| 26        | BlueSensor BRS               |           |                              |
| 27        | BlueSensor NF                |           |                              |
| 28        | Whitesensor 40554            |           |                              |
| 28        | Whitesensor 40556            |           |                              |

# BlueSensor PORTFOLIO

| Application              | Patient population | Electrode | Image                                                                               | Size (in mm)                            | Gel type | Backing Material | Connector                                            |
|--------------------------|--------------------|-----------|-------------------------------------------------------------------------------------|-----------------------------------------|----------|------------------|------------------------------------------------------|
| Long term, Holter, Event | Adult              | L         |    | 68 x 55                                 | Wet      | Microporous      | Stud and A                                           |
|                          | Adult              | VL        |    | 72 x 68                                 | Wet      | Microporous      | Stud and A                                           |
|                          | Adult              | VLC       |    | 72 x 68                                 | Wet      | Microporous      | Stud                                                 |
| Stress, Short term       | Adult              | R         |    | 57 x 48                                 | Wet      | Foam             | Stud and A                                           |
|                          | Adult              | T         |    | 57 x 35                                 | Wet      | Foam             | Stud and A                                           |
|                          | Adult              | SP        |    | 42 x 38                                 | Wet      | Foam             | Stud and A                                           |
| Short term               | Adult              | Q         |    | Non-wired: 53 x 40<br>Prewired: 40 x 40 | Wet      | Polymer          | Non-wired: Stud and A<br>Prewired: A, F and K        |
|                          | Adult              | QR        |   | 40 x 40                                 | Wet      | Polymer          | A                                                    |
|                          | Adult              | M         |  | 40 x 34                                 | Wet      | Polymer          | Stud, A and F                                        |
|                          | Paediatric         | N         |  | Non-wired: 44 x 22<br>Prewired: 30 x 22 | Wet      | Foam             | Non-wired: Stud, A and F<br>Prewired: A, F and K     |
|                          | Paediatric         | P         |  | 40 x 34                                 | Wet      | Foam             | Stud, A and F                                        |
|                          | Paediatric         | P         |  | 40 x 34                                 | Wet      | Foam             | Stud, A and F                                        |
| Resting                  | Adult              | BS2300    |  | 34 x 23                                 | Solid    | Polymer          | Tab                                                  |
|                          | Adult              | SU        |  | 49 x 33                                 | Wet      | Polymer          | Tab, A and F                                         |
| Neonatal                 | Neonates           | BR        |  | 28 x 20                                 | Solid    | Cloth            | A, K and F                                           |
|                          | Neonates           | BRS       |  | 16 x 19                                 | Solid    | Cloth            | A and K                                              |
|                          | Neonates           | NEOX      |  | 25 x 20                                 | Solid    | Cloth            | K                                                    |
|                          | Neonates           | NF        |  | Non-wired: 44 x 22<br>Prewired: 30 x 22 | Solid    | Cloth            | Non-wired: Stud and F<br>Prewired: A, F, J, SC and K |
|                          | Neonates           | NF        |  | Non-wired: 44 x 22<br>Prewired: 30 x 22 | Solid    | Cloth            | Non-wired: Stud and F<br>Prewired: A, F, J, SC and K |

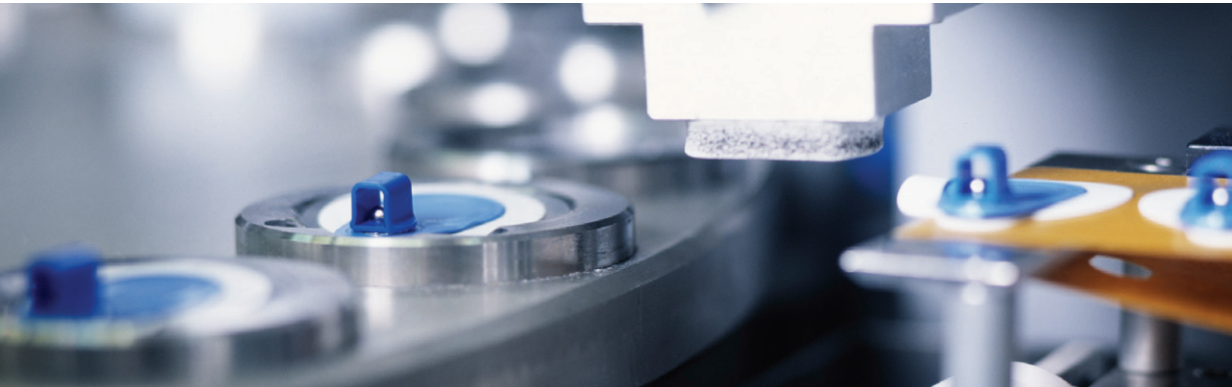
# WhiteSensor PORTFOLIO

| Application        | Patient population | Electrode | Image                                                                                 | Size (in mm) | Gel type | Backing Material | Connector     |
|--------------------|--------------------|-----------|---------------------------------------------------------------------------------------|--------------|----------|------------------|---------------|
| Long term          | Adult              | CMM/1     |    | 50 x 50      | Solid    | Cloth            | Stud          |
|                    | Adult              | 4440      |    | 55           | Wet      | Cloth            | Graphite Stud |
| Resting, Long term | Paediatric         | WSP25     |    | 32 x 25      | Solid    | Foam             | Stud          |
|                    | Adult/Paediatric   | WSP30     |    | 35 x 30      | Solid    | Foam             | Stud          |
| Stress             | Adult              | 4560M     |    | 38 x 60      | Wet      | Foam             | Stud          |
|                    | Adult              | 3351/RT   |    | 33 x 51      | Solid    | Foam             | Graphite Stud |
| Short term         | Adult              | 7841P     |    | 42 x 42      | Solid    | Polymer          | Graphite Stud |
|                    | Adult              | WS        |   | 36 x 40      | Solid    | Foam             | Stud          |
|                    | Adult              | WS/RT     |  | 36 x 40      | Solid    | Foam             | Graphite Stud |
|                    | Adult              | 4500M     |  | 50 x 50      | Wet      | Foam             | Graphite Stud |
|                    | Adult              | 4500M-H   |  | 50 x 50      | Wet      | Foam             | Stud          |
|                    | Adult              | 4200      |  | 28 x 44      | Solid    | Foam             | Stud          |
|                    | Adult              | 4300      |  | 36 x 40      | Solid    | Foam             | Stud          |
|                    | Adult              | 4535M     |  | 32 x 44      | Wet      | Foam             | Stud          |
|                    | Paediatric         | 4570M     |  | 38 x 60      | Wet      | Foam             | Graphite Stud |
|                    | Adult/Paediatric   | 4831Q     |  | 37 x 37      | Solid    | Foam             | Stud          |
|                    | Adult              | 4841P     |  | 42 x 42      | Solid    | Foam             | Graphite Stud |
|                    | Paediatric         | 40713     |  | 19 x 38      | Solid    | Cloth            | Graphite Stud |
| Resting            | Adult              | 4530      |  | 32 x 44      | Wet      | Foam             | F             |
|                    | Adult              | 4540      |  | 32 x 44      | Wet      | Foam             | A             |
|                    | Paediatric         | 0215M     |  | 13 x 34      | Solid    | Polymer          | Tab           |
|                    | Adult              | 0315M     |  | 21 x 35      | Solid    | Polymer          | Tab           |
|                    | Adult              | 0415M     |  | 23 x 34      | Solid    | Polymer          | Tab           |
|                    | Adult              | 0715M     |  | 26 x 34      | Solid    | Polymer          | Tab           |
|                    | Adult              | 0715M     |  | 26 x 34      | Solid    | Polymer          | Tab           |
| Neonatal           | Neonates           | 40554     |  | 22 x 22      | Solid    | Cloth            | K             |
|                    | Neonates           | 40556     |  | 22 x 22      | Solid    | Cloth            | A             |



# Ambu® ELECTRODES

## – QUALITY IN EVERY ASPECT



Highly refined manufacturing processes and quality controls ensure the Ambu® electrode quality.

### Pioneering and innovating for more than 4 decades

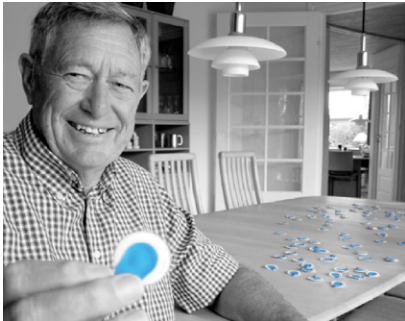
Through more than 40 years of experience with developing and optimizing ECG electrodes, Ambu® has become a trusted partner for numerous hospitals, clinics and EMS service providers. We sell more than 800 million electrodes worldwide every year, and we strive to be the epitome of reliability and convenience in every situation.

Since our engineers developed the offset connector more than 4 decades ago, we have been continuously optimizing our products with unique features based on insights gained through tight collaboration with users from all over the world.

### A comprehensive range of electrodes

Electrodes need to be easy to use without extensive preparation. They must be equipped with features that ensure patient comfort and ease of use without compromising reliability and signal quality.

Over time we have gained invaluable experience and understanding which has made us capable of creating a comprehensive range of electrodes. Each one of them has been developed to match a specific usage situation.



Ambu® Engineer, Jan Rasmussen, developed the offset connector more than 40 years ago – its technical advantages are still superior.



BlueSensor - When failure is not an option. Ambu BlueSensor proudly sponsors the Xtreme Everest project, a research mission to find the underlying physiological reasons why some people cope better with low oxygen conditions than others.

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.

# BlueSensor

# WhiteSensor

Ambu has more than 40 years of experience in developing single-use electrodes. In 1976, the first BlueSensor electrode came on the market, and today, BlueSensor offers a wide range of electrodes to meet the different needs of various diagnosis and monitoring procedures.

Most BlueSensor electrodes feature offset design, an innovation of Ambu, where the connector is strategically placed away from the sensor area. For electrodes with an onset connector, where all electrical components are stacked in the center, the sensor is subjected to both push and pull forces represented by taps on the connector and lead wire pulling, respectively. Offset connector mitigates the impact on signal quality from external forces. Moreover, offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin. In situations where high quality signal is a must, an electrode with offset design is highly recommended.

WhiteSensor is a broad range of standard electrodes that cover basic needs within ECG. The electrodes come with different sizes, shapes, gel types and backing materials to meet different needs.

### GEL TYPE

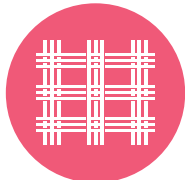


Wet gel

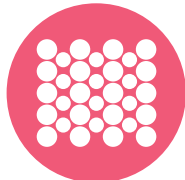


Solid gel

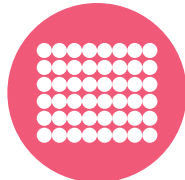
### BACKING MATERIALS



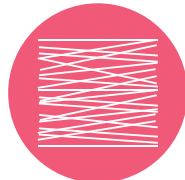
Cloth backing



Foam backing



Polymer backing



Microporous backing

### FEATURES



Double ring adhesive



Silver sensor



Radiolucent

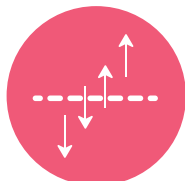


MR Conditional

### BENEFITS



Occlusive backing



Breathable backing

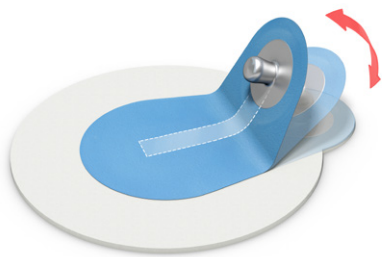
Ambu is constantly working to improve user experience and convenience. We have added icons to the packaging for quick guidance and simple selection - making your everyday easier.



# BLUESENSOR KEY FEATURES

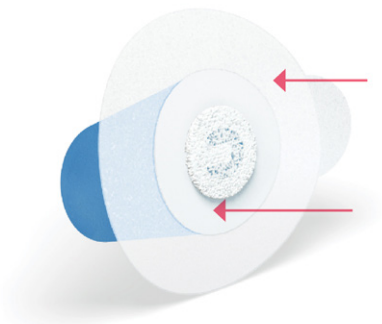
## OFFSET CONNECTOR

- Mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes.
- Allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin.



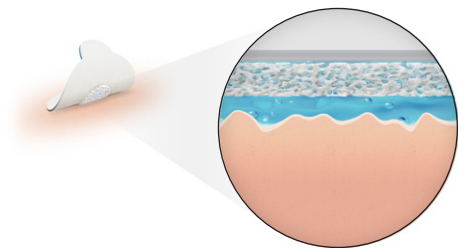
## DOUBLE RING ADHESIVE\*

- Secures fixture for long-term application and a stable signal throughout the monitoring period.
- The outer ring is for long-term wear, as adhesion increases with time.
- The inner ring on the polymer material “seals” the gel area and ensures a fast adhesion.



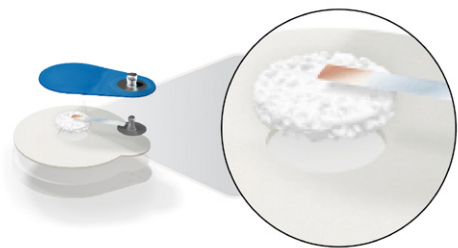
## WET GEL

- Is highly conductive.
- Optimizes contact between skin and electrode.
- Lowers skin impedance effectively and immediately.



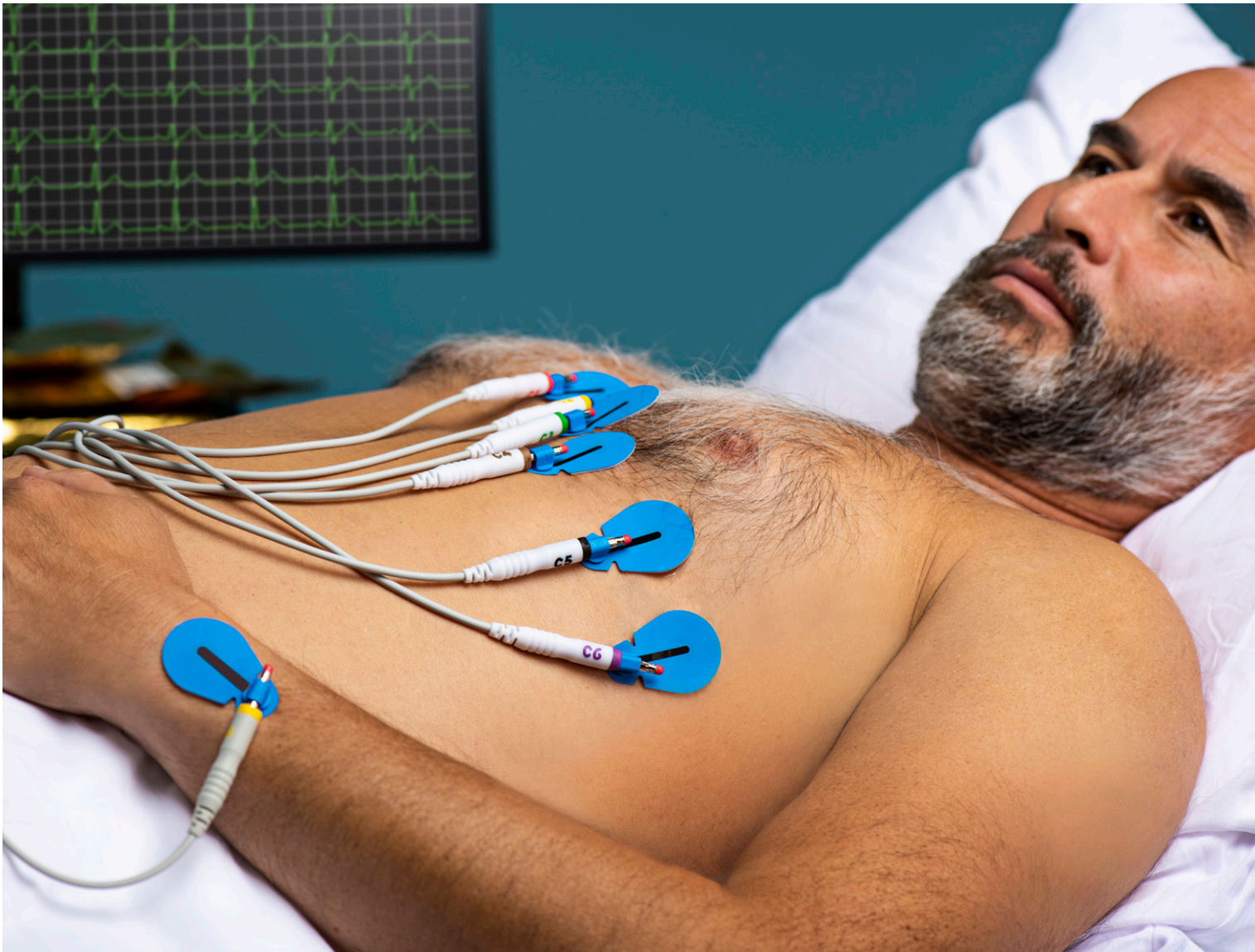
## AG/AGCL SENSOR

- Is currently (as of May 2020) the gold standard biosensor material for surface electrodes.
- Ensures stable trace quality due to optimized conversion of the signal from biological to electrical.



\*Only applicable to long-term electrodes

# RESTING ECG/12-LEAD ECG



Ambu offers a broad range of electrodes for ECG resting procedures, to meet various hospital needs.

## BENEFITS:

- Stable trace quality
- Suitable adhesion
- No need for adaptors

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.

FEATURES AND BENEFITS:

- Conductive wet gel lowers skin impedance effectively and immediately
- Wet gel optimizes contact between skin and electrode
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Occlusive backing material is resistant to fluids
- Ag/AgCl sensor ensures stable signal quality
- The tab version is radiolucent and MR Conditional

BLUESENSOR SU-00-A, SU-00-F



BLUESENSOR SU-00-C



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| SU-00-A/60       | 10          | 60          | 600             | 1200            |
| SU-00-F/60       | 10          | 60          | 600             | 1200            |
| SU-00-C/100      | 10          | 100         | 1200            | 2400            |

SU-00-A    ■ Product    ■ Wire length    ■ Connector

FEATURES AND BENEFITS:

- Conductive solid gel
- Convenient in size
- Radiolucent and MR Conditional

BLUESENSOR 2300



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| BS-Tab-2300/100  | 10          | 100         | 500             | 5000            |

BLUESENSOR SU-00-A



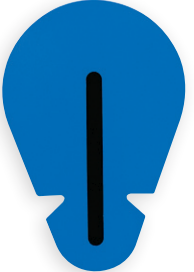
Size: 49 x 33 mm

BLUESENSOR SU-00-F



Size: 49 x 33 mm

BLUESENSOR SU-00-C



Size: 49 x 33 mm

BLUESENSOR 2300



Size: 34 x 23 mm

FEATURES AND BENEFITS:

- Highly conductive wet gel
- Flexible foam backing
- Radiolucent and MR Conditional
- 3 mm or 4 mm fitting connector

WHITESENSOR 4530, 4540



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4530             | 5           | 60          | 300             | 2400            |
| 4540             | 5           | 60          | 300             | 2400            |

FEATURES AND BENEFITS:

- Conductive solid gel
- The fish tail tab design reduces electrode lift-offs even if the adaptor kinks
- Radiolucent and MR Conditional

WHITESENSOR 0315M, 0415M, 0715M



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 0315M            | 10          | 100         | 500             | 5000            |
| 0415M            | 10          | 100         | 500             | 5000            |
| 0715M            | 10          | 100         | 500             | 5000            |

WHITESENSOR 4530



Size: 32 x 46 mm

WHITESENSOR 4540



Size: 32 x 46 mm

WHITESENSOR 0315M



Size: 21 x 35 mm

WHITESENSOR 0415M



Size: 23 x 34 mm

WHITESENSOR 0715M



Size: 26 x 34 mm



# HOLTER, EVENT RECORDING AND LONG-TERM MONITORING



### BENEFITS:

- Stable trace quality
- Suitable adhesion
- No need for adaptors

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.

### FEATURES AND BENEFITS:

- Conductive wet gel lowers skin impedance effectively and immediately
- Wet gel optimizes contact between skin and electrode
- Combination of fast and long-term adhesives secures fixation and a stable signal
- Thin microporous backing material allows the skin to breathe
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Ag/AgCl sensor ensures stable signal quality

### BLUESENSOR L, VL, VLC



### BLUESENSOR L



Size: 68 x 55 mm

### BLUESENSOR VL



Size: 72 x 68 mm (non-wired)  
68 mm diam (prewired)

### BLUESENSOR VLC



Size: 72 x 68 mm

15 months shelf life: BlueSensor VLC  
24 months shelf life: BlueSensor L, VL

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| L-00-S/5         | 1           | 5           | 500             | 1000            |
| L-00-A/25        | 1           | 25          | 500             | 1000            |
| L-00-S/25        | 1           | 25          | 500             | 1000            |

L-00-S      ■ Product      ■ Wire length      ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| VL-00-A/25       | 1           | 25          | 500             | 1000            |
| VL-00-S/10       | 1           | 10          | 500             | 1000            |
| VL-00-S/25       | 1           | 25          | 500             | 1000            |
| VL-10-A/25       | 1           | 25          | 500             | 1000            |
| VL-50-A/25       | 1           | 25          | 500             | 1000            |
| VL-50-K/25       | 1           | 25          | 500             | 1000            |

VL-00-A      ■ Product      ■ Wire length      ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| VLC-00-S/4       | 1           | 4           | 500             | 1000            |
| VLC-00-S/10      | 1           | 10          | 500             | 1000            |
| VLC-00-S/25      | 1           | 25          | 500             | 1000            |

VLC-00-S      ■ Product      ■ Wire length      ■ Connector

Some configurations may not be available worldwide



FEATURES AND BENEFITS:

- Conductive wet gel supporting stable signal
- Strong high-tech adhesive foam
- Soft cloth backing ensures comfort during application
- Radiolucent and MR Conditional

WHITESENSOR 4440



WHITESENSOR 4440



Size: 55 mm diameter

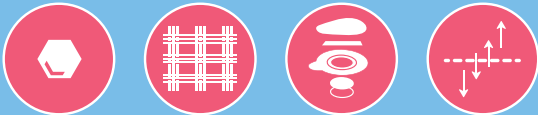
24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4440             | 1           | 30          | 300             | 3000            |
| 4440/3           | 3           | 3           | 600             | 3600            |
| 4440/5           | 5           | 5           | 750             | 4500            |

FEATURES AND BENEFITS:

- Conductive solid gel ensures reliable recordings
- Enhanced adhesion
- Comfortable non-woven cloth backing

WHITESENSOR CMM/1



WHITESENSOR CMM/1



Size: 50 mm diameter

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| CMM/1-00-S/30    | 1           | 30          | 1200            | 7200            |

CMM/1-00-S ■ Product ■ Wire length ■ Connector





# STRESS TEST



## BENEFITS:

- Stable trace quality
- Suitable adhesion

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.

## FEATURES AND BENEFITS:

- Conductive wet gel lowers skin impedance effectively and immediately
- Wet gel optimizes contact between skin and electrode
- Adhesive is gentle to the skin
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Ag/AgCl sensor ensures stable signal quality

BLUESENSOR R, SP, T



BLUESENSOR R



Size: 57 x 48 mm

BLUESENSOR SP



Size: 42 x 38 mm

BLUESENSOR T



Size: 57 x 35 mm

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| R-00-S/3         | 1           | 3           | 252             | 504             |
| R-00-S/4         | 1           | 4           | 500             | 1000            |
| R-00-S/5         | 1           | 5           | 500             | 1000            |
| R-00-S/7         | 1           | 7           | 504             | 1008            |
| R-00-S/10        | 1           | 10          | 500             | 1000            |
| R-00-A/25        | 1           | 25          | 500             | 1000            |
| R-00-S/25        | 1           | 25          | 500             | 1000            |

R-00-S      ■ Product      ■ Wire length      ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| SP-00-S/3        | 1           | 4           | 500             | 1000            |
| SP-00-S/4        | 1           | 10          | 1000            | 2000            |
| SP-00-S/5        | 1           | 50          | 1000            | 2000            |
| SP-00-S/7        | 1           | 50          | 1000            | 2000            |

SP-00-S      ■ Product      ■ Wire length      ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| T-10-S/10        | 1           | 10          | 500             | 1000            |
| T-00-A/25        | 1           | 25          | 500             | 1000            |
| T-00-S/25        | 1           | 25          | 500             | 1000            |

T-00-S      ■ Product      ■ Wire length      ■ Connector

Some configurations may not be available worldwide



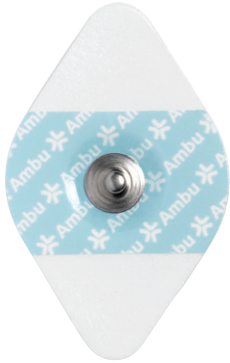
FEATURES AND BENEFITS:

- Highly conductive wet gel
- Strong high-tech adhesive foam
- Comfortable foam backing
- Ergonomic shape

WHITESENSOR 4560M



WHITESENSOR 4560M



Size: 38 x 60 mm

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4560M            | 3           | 60          | 300             | 3000            |

FEATURES AND BENEFITS:

- Solid gel and adhesion secure consistent and reliable ECG tracings
- Acrylic copolymer coated foam enables the electrode to be conformable and comfortable to wear
- Non-irritating to skin
- MR Conditional and radiolucent

WHITESENSOR 3351/RT



WHITESENSOR 3351/RT



Size: 33 x 51 mm

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 3351-00-S/RT/50  | 5           | 50          | 600             | 7200            |

3351-00-S ■ Product ■ Wire length ■ Connector

SHORT-TERM MONITORING



BENEFITS:

- Stable signal quality
- Suitable adhesion
- Fast and easy to use

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.

FEATURES AND BENEFITS:

- Conductive wet gel lowers skin impedance effectively and immediately
- Wet gel optimizes contact between skin and electrode
- Adhesive is suitable for short-term application
- Occlusive backing material is resistant to fluids
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Ag/AgCl sensor ensures stable signal quality

BLUESENSOR M



BLUESENSOR Q



BLUESENSOR QR



12 months shelf life: BlueSensor Q (non-wired)  
15 months shelf life: BlueSensor M  
24 months shelf life: BlueSensor QR  
BlueSensor Q (prewired)

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| M-00-S/50        | 1           | 50          | 1000            | 2000            |
| M-00-A/50        | 1           | 50          | 1000            | 2000            |
| M-00-F/50        | 1           | 50          | 1000            | 2000            |

M-00-S ■ Product ■ Wire length ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| Q-00-A           | 1           | 25          | 500             | 1000            |
| Q-00-S           | 1           | 25          | 500             | 1000            |
| Q-10-A           | 1           | 25          | 500             | 1000            |
| Q-10-F           | 1           | 25          | 500             | 1000            |
| Q-50-K           | 1           | 25          | 500             | 1000            |
| Q-100-K          | 1           | 10          | 500             | 1000            |

Q-00-A ■ Product ■ Wire length ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inne rbox | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| QR-50-A/10       | 1           | 10          | 500             | 1000            |
| QR-80-A/10       | 1           | 10          | 500             | 1000            |

QR-00-A ■ Product ■ Wire length ■ Connector

BLUESENSOR M



Size: 40 x 34 mm

BLUESENSOR Q



Size: 53.2 x 40 mm (non-wired)  
40 x 40 mm (prewired)

BLUESENSOR QR



Size: 40 x 40 mm

FEATURES AND BENEFITS:

- Highly conductive wet gel
- Enhaced adhesion
- Flexible foam backing
- 4500M is radiolucent and MR Conditional

WHITESENSOR 4500M



WHITESENSOR 4500M-H, 4535M



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4500M            | 3           | 30          | 300             | 3000            |
| 4500M/3          | 3           | 3           | 600             | 3600            |
| 4500M/5          | 5           | 5           | 750             | 4500            |
| 4500M-H          | 3           | 60          | 300             | 3000            |
| 4500M-H/3        | 3           | 3           | 600             | 3600            |
| 4500M-H/5        | 5           | 5           | 750             | 4500            |
| 4500M-H/10       | 5           | 10          | 300             | 3000            |
| 4535M            | 3           | 60          | 300             | 3000            |
| 4535M/3          | 3           | 3           | 600             | 3600            |
| 4535M/30         | 30          | 30          | 300             | 3000            |
| 4535M/5          | 5           | 5           | 750             | 4500            |

WHITESENSOR 4500M



Size: 50 mm diameter

WHITESENSOR 4500M-H



Size: 50 mm diameter

WHITESENSOR 4535M



Size: 32 x 44 mm



FEATURES AND BENEFITS:

• Ergonomic leaf shape

• Radiolucent and MR Conditional

• 4841P feature flexible foam backing

• 7841P has a clear tape backing which has a high vapour transmission rate and makes the patient’s skin visible during monitoring

WHITESENSOR 4841P

WHITESENSOR 7841P

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4841P            | 3           | 60          | 600             | 7200            |
| 7841P            | 3           | 60          | 600             | 7200            |
| 7841P/3          | 3           | 3           | 600             | 3600            |
| 7841P/5          | 5           | 5           | 750             | 4500            |

FEATURES AND BENEFITS:

• Conductive solid gel

• Flexible foam backing

WHITESENSOR 4200, 4300

30 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4200             | 5           | 100         | 1200            | 9600            |
| 4300             | 5           | 100         | 1200            | 9600            |

WHITESENSOR 4841P

Size: 42 x 42 mm

WHITESENSOR 7841P

Size: 42 x 42 mm

WHITESENSOR 4200

Size: 28 x 44 mm

WHITESENSOR 4300

Size: 36 x 40 mm

FEATURES AND BENEFITS:

• Conductive solid gel

• Strong high-tech adhesive foam

• Flexible foam backing

• WS/RT is radiolucent and MR Conditional

WHITESENSOR WS

WHITESENSOR WS/RT

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| WS-00-S/RT/50    | 1           | 50          | 600             | 7200            |
| WS-00-S/RT/3     | 3           | 3           | 600             | 3600            |
| WS-00-S/RT/5     | 5           | 5           | 1000            | 6000            |
| WS-00-S/50       | 1           | 50          | 600             | 7200            |
| WS-00-S/L5/50    | 5           | 50          | 600             | 7200            |
| WS-00-S/3        | 3           | 3           | 600             | 3600            |
| WS-00-S/4        | 4           | 4           | 600             | 3600            |
| WS-00-S/5        | 5           | 5           | 600             | 3600            |
| WS-00-S/10       | 5           | 10          | 600             | 3600            |
| WS-00-S/30       | 1           | 30          | 600             | 7200            |

WS-00-S      ■ Product      ■ Wire length      ■ Connector

WHITESENSOR WS

Size: 36 x 40 mm

WHITESENSOR WS/RT

Size: 36 x 40 mm

22

23

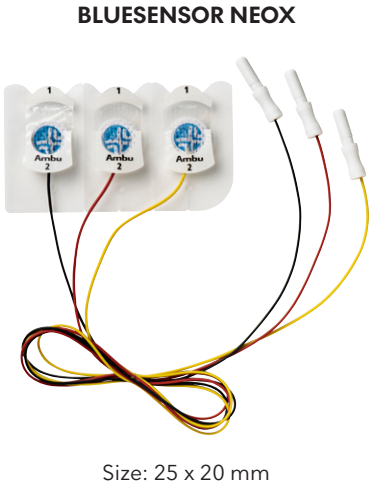
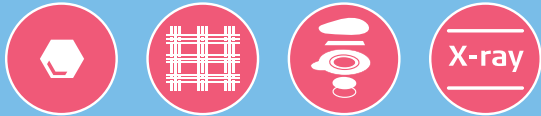
# NEONATAL MONITORING



### FEATURES AND BENEFITS:

- Extra small size is designed for premature neonatal care
- Four-leaf clover shape conforms to skin surface and supports gentle removal
- Silicone adhesive is suitable for sensitive skin
- Transparent material allows to see the skin
- Excellent adhesion in high humidity environments
- Radiolucency allows the electrode to remain on the patient during X-ray procedures
- Prewired with 1,5 mm connector

### NEOX



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| NEOX-60-K/EU/3   | 3           | 3           | 120             | 960             |
| NEOX-60-K/US/3   | 3           | 3           | 120             | 960             |

NEOX-60-K   ■ Product   ■ Wire length   ■ Connector

### BENEFITS:

- Stable trace quality
- Suitable adhesion
- Skin friendly

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.



FEATURES AND BENEFITS:

- Skin-friendly solid gel supports the quality of the signal
- Soft cloth backing material allows the skin to breathe
- Extra small sizes fits neonatals
- Radiolucency allows the electrode to remain on the patient during X-ray procedures
- Prewired with 1,5 mm or 4 mm connector

BLUESENSOR BR, BRS



BLUESENSOR BR



Size: 28 x 20 mm

BLUESENSOR BRS



Size: 16 x 19 mm

18 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| BR-50-K/US/3     | 3           | 3           | 600             | 1200            |
| BR-50-A/12       | 3           | 12          | 600             | 1200            |
| BR-50-K/12       | 3           | 12          | 600             | 1200            |
| BR-50-K/EU/12    | 3           | 12          | 600             | 1200            |
| BR-80-A/12       | 3           | 12          | 600             | 1200            |
| BR-80-K/12       | 3           | 12          | 600             | 1200            |
| BR-100-F/C4/4    | 4           | 4           | 600             | 1200            |
| BR-100-F/C6/6    | 6           | 6           | 600             | 1200            |
| BR-100-K/C3/3    | 3           | 3           | 600             | 1200            |
| BR-100-K/C4/4    | 4           | 4           | 600             | 1200            |
| BR-100-K/C6/6    | 6           | 6           | 600             | 1200            |
| BR-100-K/12      | 3           | 12          | 600             | 1200            |
| BR-170-K/C4/4    | 4           | 4           | 600             | 1200            |
| BR-170-K/C6/6    | 6           | 6           | 600             | 1200            |

BR-50-K      ■ Product      ■ Wire length      ■ Connector

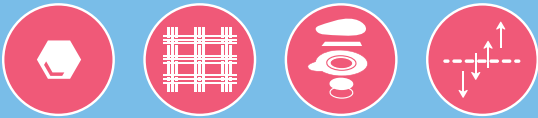
| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| BRS-50-A/12      | 3           | 12          | 600             | 1200            |
| BRS-50-K/12      | 3           | 12          | 600             | 1200            |
| BRS-50-K/C3/3    | 3           | 3           | 600             | 1200            |
| BRS-50-K/EU/12   | 3           | 12          | 600             | 1200            |
| BRS-50-K/EU/3    | 3           | 3           | 600             | 1200            |
| BRS-50-K/US/3    | 3           | 3           | 600             | 1200            |

BRS-50-A      ■ Product      ■ Wire length      ■ Connector

FEATURES AND BENEFITS:

- Skin-friendly solid gel supports the quality of the signal
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Ag/AgCl sensor ensures stable signal quality
- Available with various connectors and colour coded lead wires

BLUESENSOR NF



BLUESENSOR NF



Size: 30 x 22 mm (prewired)

BLUESENSOR NF-00-S



Size 44.3 x 22 mm (non-wired)

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| NF-00-F/12       | 3           | 12          | 600             | 1200            |
| NF-00-S/12       | 3           | 12          | 1200            | 2400            |
| NF-10-A/12       | 3           | 12          | 600             | 1200            |
| NF-10-F/12       | 3           | 12          | 600             | 1200            |
| NF-10-SC/12      | 3           | 12          | 600             | 1200            |
| NF-50-A/12       | 3           | 12          | 600             | 1200            |
| NF-50-F/12       | 3           | 12          | 600             | 1200            |
| NF-50-J/3        | 3           | 3           | 600             | 1200            |
| NF-50-J/W/12     | 3           | 12          | 600             | 1200            |
| NF-50-K/12/EU    | 3           | 12          | 600             | 1200            |
| NF-50-K/3/EU     | 3           | 3           | 600             | 1200            |
| NF-50-K/3/US     | 3           | 3           | 600             | 1200            |
| NF-50-K/W/12     | 3           | 12          | 600             | 1200            |
| NF-50-K/W/30     | 3           | 30          | 600             | 1200            |
| NF-60-K/W/HC/30  | 3           | 30          | 600             | 1200            |

NF-00-F      ■ Product      ■ Wire length      ■ Connector

Some configurations may not be available worldwide

Some configurations may not be available worldwide

FEATURES AND BENEFITS:

- Skin-friendly solid gel ensures gentle contact
- Breathable soft cloth backing allows skin ventilation
- Small size is suitable for neonatal patients
- Radiolucency allows the electrode to remain on the patient during X-ray procedures
- 40554 is prewired with 1,5 mm connector
- 40556 is prewired with 4 mm connector

WHITESENSOR 40554, 40556



WHITESENSOR 40554



Size: 22 x 22 mm

WHITESENSOR 40556



Size: 22 x 22 mm

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 40554            | 3           | 3           | 300             | 3000            |
| 40556            | 3           | 3           | 300             | 3000            |

PAEDIATRIC MONITORING



BENEFITS:

- Stable trace quality
- Suitable adhesion

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.



FEATURES AND BENEFITS:

- Conductive wet gel lowers skin impedance effectively and immediately
- Wet gel optimizes contact between skin and electrode
- Adhesive is suitable for short-term application
- Adhesive is gentle to the skin
- Offset connector mitigates the impact on signal quality from external forces like pulling of lead wires and pressure on electrodes
- Offset connector allows the user to connect and disconnect the lead wire without applying pressure to the patient or the sensor area, which reduces the risk of gel spreading and adhesive detachment from skin
- Ag/AgCl sensor ensures stable signal quality

BLUESENSOR P, N



BLUESENSOR P



Size 40 x 34 mm

BLUESENSOR N



Size: 30 x 22 mm (prewired)

BLUESENSOR N-00-S



Size: 44 x 22 mm (non-wired)

12 months shelf life: BlueSensor N (prewired)  
15 months shelf life: BlueSensor P  
24 months shelf life: BlueSensor N (non-wired)

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| P-00-S/10        | 1           | 10          | 1000            | 2000            |
| P-00-S/12        | 1           | 12          | 960             | 1920            |
| P-00-A/50        | 1           | 50          | 1000            | 2000            |
| P-00-F/50        | 1           | 50          | 1000            | 2000            |
| P-00-S/50        | 1           | 50          | 1000            | 2000            |

P-00-S ■ Product ■ Wire length ■ Connector

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| N-00-A/25        | 1           | 25          | 1000            | 2000            |
| N-00-F/25        | 1           | 25          | 1000            | 2000            |
| N-00-S/25        | 1           | 25          | 1000            | 2000            |
| N-10-A/25        | 1           | 25          | 1000            | 2000            |
| N-10-F/25        | 1           | 25          | 1000            | 2000            |
| N-50-A/25        | 1           | 25          | 500             | 1000            |
| N-50-F/25        | 1           | 25          | 500             | 1000            |
| N-50-K/25        | 1           | 25          | 500             | 1000            |

N-00-A ■ Product ■ Wire length ■ Connector



Some configurations may not be available worldwide

FEATURES AND BENEFITS:

- Conductive solid gel
- The fish tail tab design reducing electrode lift-offs
- Radiolucent and MR Conditional

WHITESENSOR 0215M



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 0215M            | 10          | 100         | 500             | 5000            |

WHITESENSOR 0215M



Size: 13 x 34 mm

FEATURES AND BENEFITS:

- Skin-friendly solid gel supports the quality of the signal
- Soft cloth backing allows skin to breathe
- Small size is ideal for paediatric patients
- Radiolucent and MR Conditional

WHITESENSOR 40713



24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 40713            | 3           | 3           | 300             | 3000            |

WHITESENSOR 40713



Size: 19 x 38 mm

FEATURES AND BENEFITS:

- Highly conductive solid gel and strong adhesion ensure a stable and secure tracing
- Comfortable and flexible foam backing
- Skin friendly throughout the duration of use <48 h
- Small-sized WSP25 electrode is for pediatric use and small/medium-sized WSP30 electrode is both for children and adults

WHITESENSOR WSP25, WSP30

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| WSP25-00-S/50    | 5           | 50          | 600             | 7200            |
| WSP30-00-S/50    | 5           | 50          | 600             | 7200            |
| WSP30-00-S/3     | 3           | 3           | 600             | 3600            |
| WSP30-00-S/5     | 5           | 5           | 1000            | 6000            |

WSP25-00-S    ■ Product    ■ Wire length    ■ Connector

FEATURES AND BENEFITS:

- Ergonomic leaf shape
- Flexible foam backing
- Can be used on both children and adults

WHITESENSOR 4841Q

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4831Q            | 3           | 60          | 600             | 7200            |

WHITESENSOR WSP25



Size: 32 x 25 mm

WHITESENSOR WSP30



Size: 35 x 30 mm

WHITESENSOR 4831Q



Size: 37 x 37 mm

FEATURES AND BENEFITS:

- Highly conductive wet gel
- Flexible foam backing
- Ergonomic shape
- Enhanced adhesion
- Radiolucent and MR Conditional

WHITESENSOR 4570M

24 months shelf life

| Reference number | Units/liner | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-------------|-----------------|-----------------|
| 4570M            | 3           | 30          | 300             | 3000            |

WHITESENSOR 4570M



Size: 38 x 60 mm

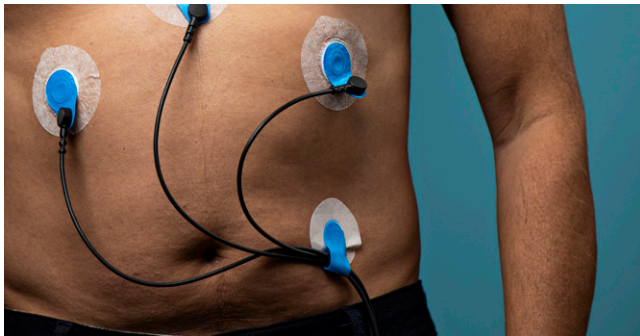


# ACCESSORY

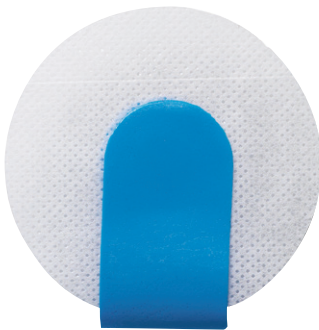
### FEATURES AND BENEFITS:

- Fixes electrode leadwires on patients during Holter and Stress test
- Reduces movement artefacts on the ECG
- Minimizes the risk of electrodes falling off
- MR Safe
- Adhesive size: Ø55 mm
- Latex free
- Biocompatible

The correct placement of electrodes is typically determined by the hospital/physician and/or local protocol/procedures. Images in this catalogue are not meant as placement guidance.



SKIN FIX



| Reference number | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-----------------|-----------------|
| 2703/50          | 50          | 500             | 3000            |

### FEATURES AND BENEFITS:

- Allows skin preparation before electrode placement
- Abrasive to reduce skin impedance
- Adhesive on one side, to use with one finger
- Small size fits finger tip

SKIN PREP



Ref: 2121M

| Reference number | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-----------------|-----------------|
| 2121M            | 500         | 1500            | 15000           |

### FEATURES AND BENEFITS:

- Connects 3 mm pin cables to tab electrodes
- Ensures secure connection
- Easy to use

SNAP CLIP



Ref: 0334M

| Reference number | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-----------------|-----------------|
| 0334M            | 10          | N/A             | 1000            |

### FEATURES AND BENEFITS:

- Connects 4 mm banana pin to snap or tab electrodes
- Ensures secure connection
- Allows quick and easy one-hand application

MULTI CLIP



Ref: 2952/10

| Reference number | Units/pouch | Units/inner box | Units/outer box |
|------------------|-------------|-----------------|-----------------|
| 2952/10          | 10          | N/A             | N/A             |



## A HISTORY OF BREAKTHROUGH IDEAS

Ambu has been bringing the solutions of the future to life since 1937. Today, millions of patients and healthcare professionals worldwide depend on the efficiency, safety and performance of our single-use endoscopy, anaesthesia, and patient monitoring & diagnostics solutions.

The manifestations of our efforts have ranged from early innovations like the Ambu® Bag™ resuscitator and the Ambu® BlueSensor™ electrodes to our newest landmark solutions like the Ambu® aScope™ - the world's first single-use flexible endoscope. Moreover, we continuously look to the future with a commitment to deliver innovative quality products that have a positive impact on your work.

Headquartered near Copenhagen in Denmark, Ambu employs approximately 4,200 people in Europe, North America and the Asia Pacific.

### Ambu takes environmental issues seriously

Some of the greenest companies in the world are based in Denmark, and Ambu is inspired by this tradition.

Ambu environmental targets: 100% phthalate-free products by 2020. 95% PVC-free for products released after 2025. All packaging reusable and biodegradable by 2025.

For more information, please visit [ambu.com/urology](https://www.ambu.com/urology)

# Ambu

Ambu A/S  
Baltorpbakken 13  
DK - 2750 Ballerup  
Denmark  
Tlf.: +45 7225 2000  
[ambu.com](https://www.ambu.com)

PUB-001337 - 2021/12 - V01 - Ambu A/S.  
Technical data may be modified without further notice.