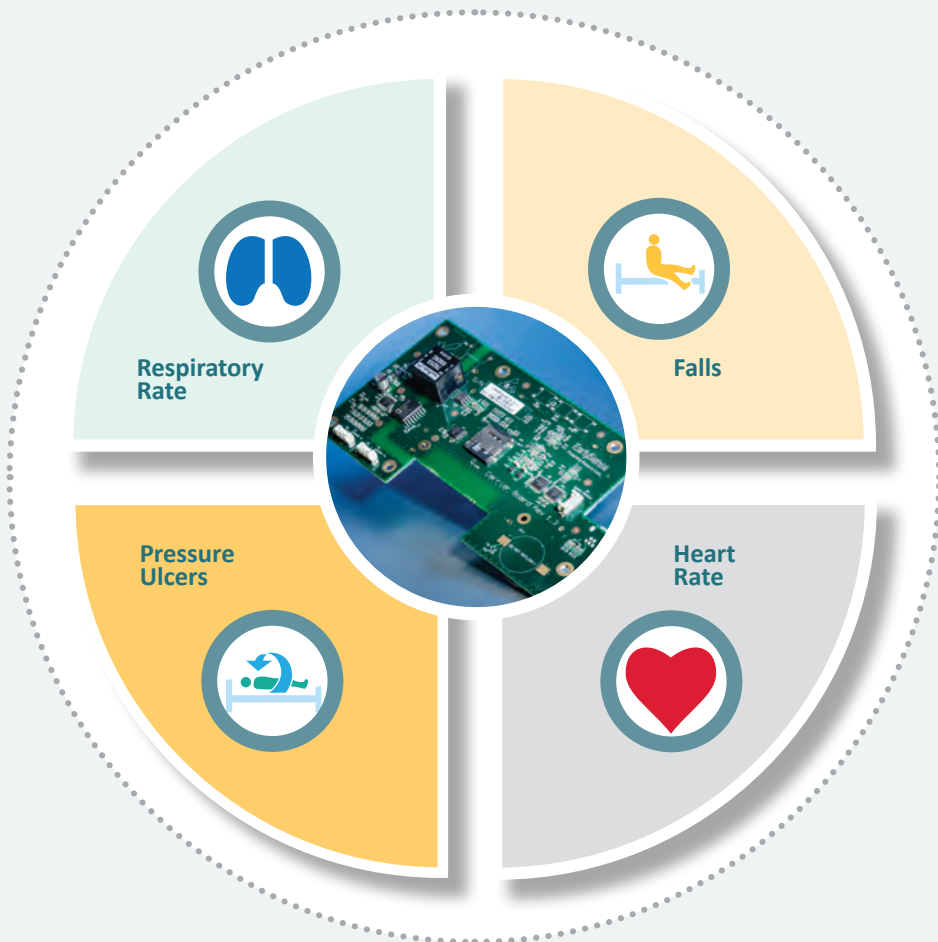




*Provide  
Contact-free  
and  
Continuous  
Patient  
Monitoring*



# EarlySense<sup>®</sup> OEM

The contact-free technology provides continuous patient monitoring while eliminating alarm fatigue. It is now possible to integrate the EarlySense OEM Module to any product, with all or part of the following modules:

## Respiratory Rate

- Breath per minute (Br/min)
- High accuracy
- Thresholds crossing notifications
- Indication of significant trend changes

## Patient Fall Prevention

- 6 levels of bed exit sensitivity
- Delayed exit notification for wandering patients
- Additional visual indication of **potential** exits



## Pressure Ulcer / Decubitus Prevention

- Motion analysis
- Indication of low movement patients at risk
- Patient turn reminders
- System recognition of patient turns

## Heart Rate

- Beats per minute (BPM)
- Highly validated
- Thresholds crossing notifications
- Indication of significant trend changes

*Respiratory Rate and Heart Rate are clinically established as the most important indicators for early detection of patient deterioration<sup>1</sup>, up to 6-8 hours prior to the critical Event<sup>2</sup>.*

*EarlySense's continuous motion analysis provides smart indications to the medical staff, to inform them when a patient starts to exit the bed, and helping the staff manage patients with higher risk of pressure ulcers.*

## Reduce Alarm Fatigue

In comparison to other monitoring solutions, EarlySense provides a very low Alarm Rate.

Monitoring Technology	Alarms per nurse per shift	Alarms per 100 hours of monitoring
EarlySense <sup>3</sup>	1.7	2.8
Telemetry <sup>4</sup>	91.1	151.8
Oximetry <sup>5</sup>	120.0	200.0

The EarlySense contact-free and continuous monitoring solution was validated through extensive clinical studies that were published in peer-reviewed journals. These studies demonstrated that the implementation of the EarlySense technology significantly improves clinical outcomes and reduces economic burden.

### Clinical Results

45%



Reduction in length of stay in ICU for patients coming from the med/surg unit<sup>7</sup>

86%



Reduction in resuscitation/code blue events<sup>7</sup>

47%



Reduction in patient falls<sup>6</sup>

64%



Reduction in decubitus/pressure ulcers<sup>6</sup>



The EarlySense OEM Module has a **compatible proprietary sensor** allowing continuous contact-free measurements. The sensor accurately measures patients with any surface (such as a mattress, cushion, chair and more)

**A full developer's support kit is available**

<sup>1</sup> Schein R.M. et al, Chest 1990; 98: 1388-92

<sup>2</sup> The Joint Commission's 2009 National Patient Safety Goal

<sup>3</sup> Zimlichman et al. "Evaluation of EverOn as a Tool to Detect Deteriorations"

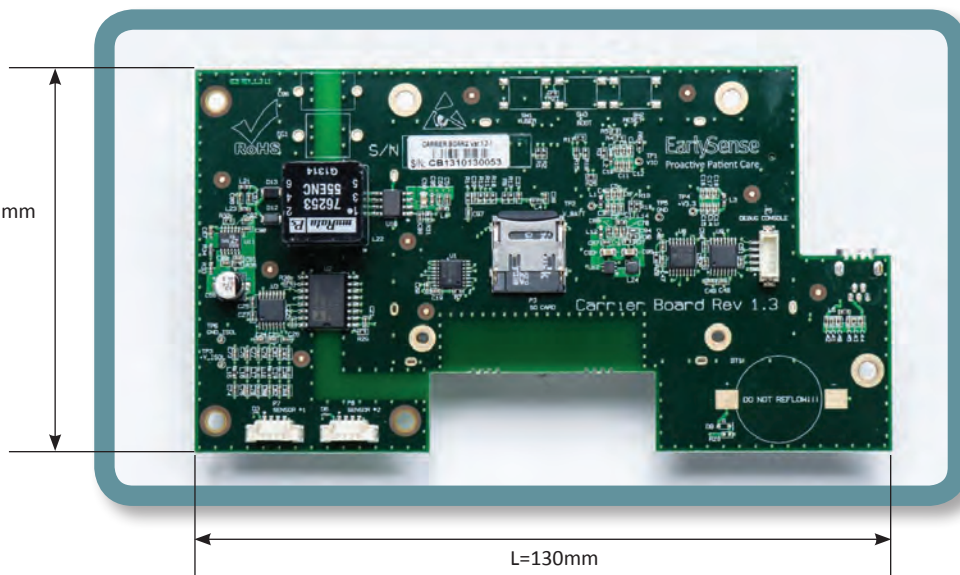
<sup>4</sup> LifeSync: "LifeSync Wireless ECG System... Increases ECG Alarm Accuracy"

<sup>5</sup> Malviya, S. et al., A & A June 2000 vol. 90 no. 6 1336-1340

<sup>6</sup> Palace, ZJ et al, AGS. May 2013

<sup>7</sup> Brown, HV et al, The American Journal of Medicine, In press

W=73mm



L=130mm

### Physical Characteristics

Dimension	130 X 73 X 20 mm		
Weight	194 +/- 10 gr		
Host connection (Power and communication)	USB Mini-B, RS232 + Power		

### Electrical Absolute Maximum characteristics - Power Supplies

Main Power Supply DC IN	Min: -0.3	Max: 5.5	Units: V
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### Operational Characteristics - Power supplies

Main Power supply, DC-IN	Min: 4.75	Max: 5.25	Typical: 5	Units: V
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### Power consumption - Power supplies

Main Power supply, DC-IN @ 5V	Min: 4	Max: 500	Typical: 430	Units: mA
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### Operating Conditions

Relative Humidity	15% - 95% non-condensing	
Ambient Operating Temperature	OEM module Unit: 0- 55 °C	

### Performance

Respiration Rate	Heart Rate	Movement
	<i>Range</i>	
6 – 65 Br./min	30 - 200 BPM	0, L, M, H, EH
	<i>Accuracy</i>	
±4% or ±1.5 Br./min, whichever is greater	±4% or ±5 BPM, whichever is greater	N/A

*The System detects heart rate that is > 1.8 times the respiration rate.  
Total system accuracy including undetected signals 90% for RR and for HR.  
The total system accuracy was measured as +/- 10% of the predicate device*

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**EarlySense**  
Proactive Patient Care