wissner-bosserhoff

NEW
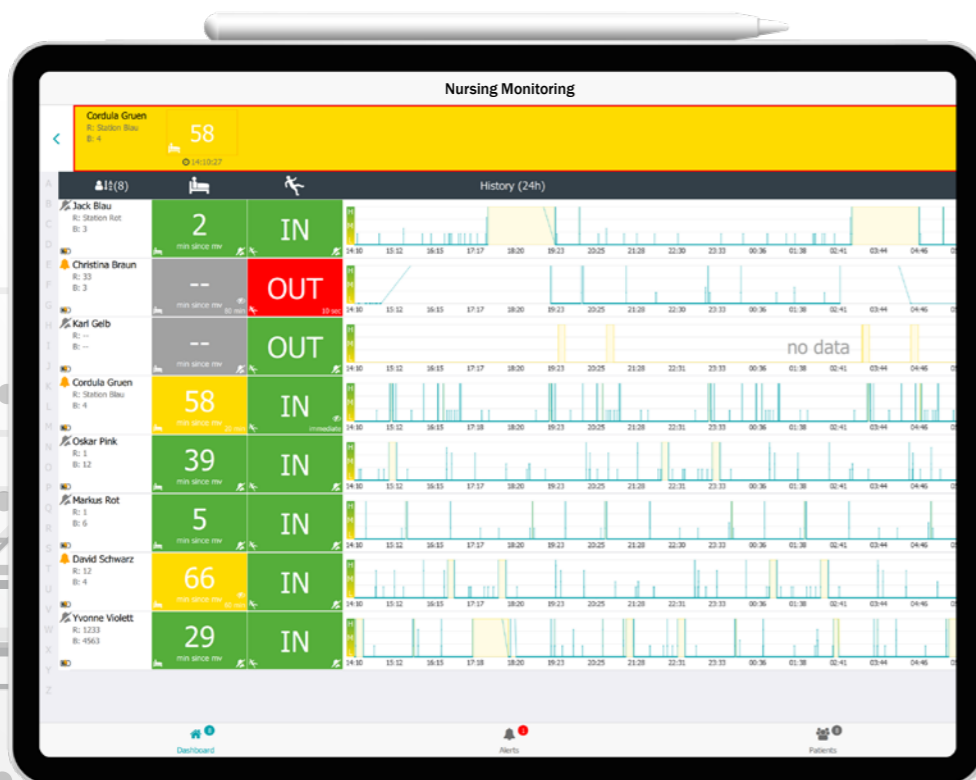WITH MOVEMENT
MONITORING

SafeSense® 3
The digital care assistant

The care monitor

All information at a glance

CONTACTLESS · CONTINUOUS · **24 h** · INVISIBLE

SafeSense®

From a bed exit sensor system to a digitalization platform

The nursing shortage is already a reality in many communities worldwide.
The number of people in need of care is rising rapidly while, at the same time, there is not enough nursing staff available to successfully cope with this development.

Taking up the trend and challenge of digitalization early on, wissner-bosserhoff has been gathering valuable experience with the SafeSense® bed exit sensor system and the sentida 7-i intelligent nursing home bed since 2014.

During this time, SafeSense® has matured into a care assistant with further valuable functionalities and is recommended as future-proof digitization platform due to its open architecture. This architecture can be easily retrofitted with even more functions that additionally relieve the care givers.

SafeSense® | Digitalization platform

	Bed exit sensor system SafeSense®		Digitalization platform SafeSense® 3
	light	light&call	NEW
Automatic bed lighting	✔	✔	✔
Bed exit call		✔	✔
SafeSense®-APP with care monitor NEW			✔
Movement monitoring			✔
Bed exit monitoring			✔
Bed occupation overview			✔
Further functions are available as options*			*

Challenges in the care sector

Pressure injuries and falling are among the greatest risks for the physical health and psychological wellbeing of residents in retirement and nursing homes.

PRESSURE INJURY

Approx. 37.5%

of residents in care and nursing homes have a risk of pressure injury therefore, will need to be repositioned regulary.

High personnel expenditures

Repositioning 8.4 x / day, each for

8 min

Number of residents	Time required (h)	Bound full-time nursing staff/day
100	63	8
50	32	4
25	20	2

Source: wissner-bosserhoff's own research, 2020

FALLING

Approx. 50%

of the residents in care and nursing homes fall or are at high risk of falling.

Serious falls often mean life-long immobility for the resident. **!**

Large cost factor

A broken hip joint costs about €7,500 per resident

Number of residents	Fall events/ year (50%)	Potential costs (€) for approx. 10% severe falls*
100	50	35,000
50	25	17,500
25	12.5	8,750

Source: Expert standard "Sturzprophylaxe in der Pflege" (Prevention of Falls in Care), 1st Revision, 2013

* Broken bones and head injuries
Quelle: https://www.biva.de/dokumente/broschueren/Sturzprophylaxe.pdf

Our solutions

Real-time movement monitoring

for effective pressure injury prevention, including data visualization.

- Individual positioning-interval-setting
- Reduction of repositionings
- Reduction of control rounds

Bed exit monitoring

for effective falls prevention, including data visualization.

- Individual nurse call timing
- Fast reaction in case of bed exit / falls
- Reduction of the consequences of falls

Intelligently networked

The time is right ... for SafeSense® 3

With over 6 years of experience with integrated bed exit sensor systems, the time is now right for a real digital care assistant.

24h

Digital care in real time

- All residents in view around the clock
- Detect problems early, such as disturbed sleep, pain or stress
- Prioritization of process flows
- Support with documentation

Care monitor

with data visualization

Pressure injury prevention

by movement monitoring

Falls prevention

by bed exit monitoring

## Security

Protection of resident information through encrypted data transmission and decentralized data processing

Reliability into the future

- Flexible IT architecture
- Can be retrofitted with further sensor systems
- Regular software updates

Patented bed sensor system

Care assistance

Nurse call connection

Extra safety during night and weekend shifts
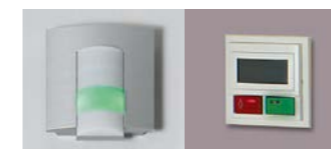
Mobile devices

All data at a glance at any time

Technology you can "touch"

The intelligent nursing home bed

- Assistance system for continuous **real-time resident monitoring**

- Contactless **data acquisition and visualization**

- Differentiated **call management** for faster **prioritization**, especially during weekend and night shifts

- **Bed presence** – Is the resident in bed – YES or NO; well suited for the most accurate observation of "nocturnal wandering"
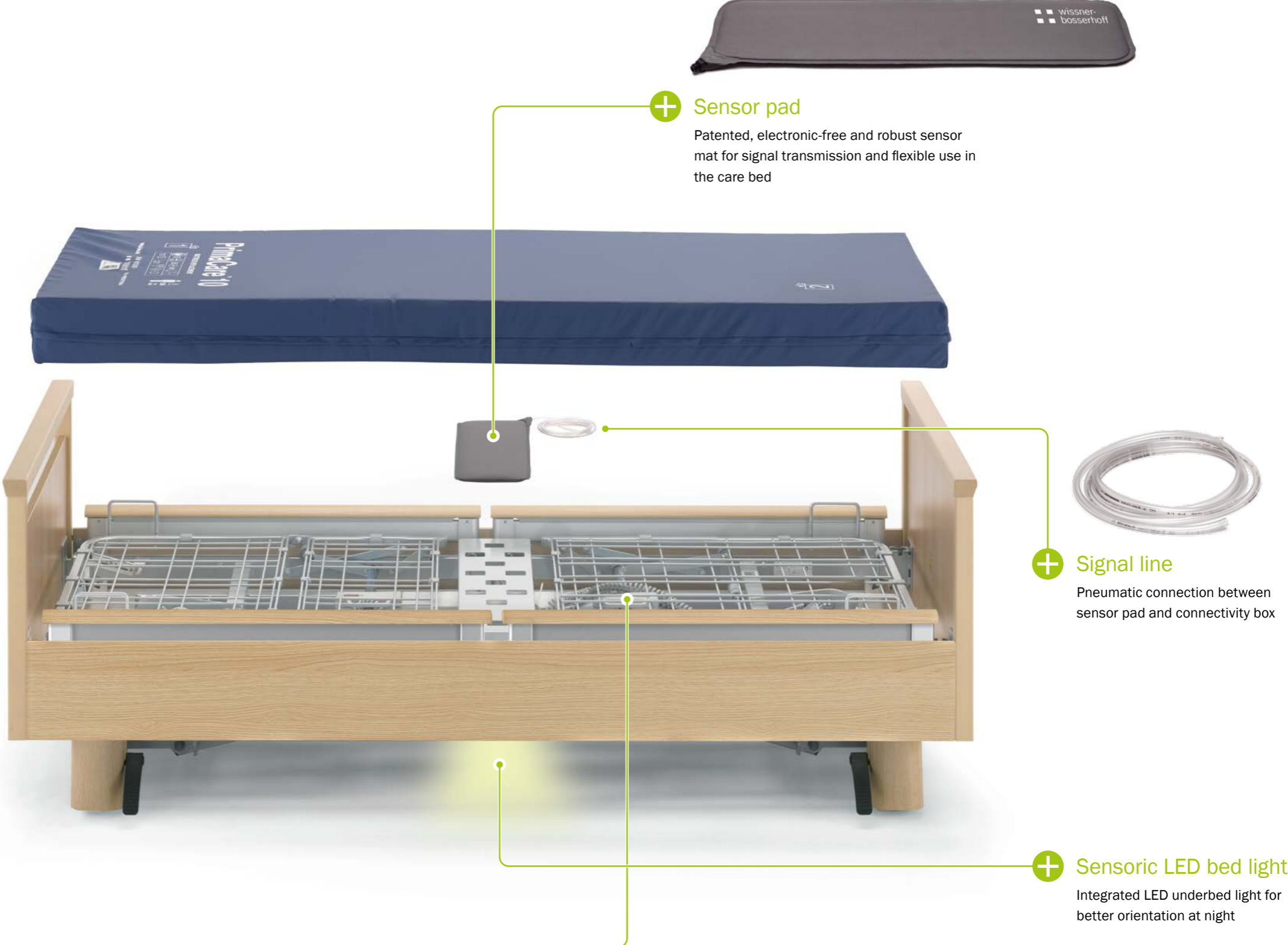
Sensor pad

Patented, electronic-free and robust sensor mat for signal transmission and flexible use in the care bed

Signal line

Pneumatic connection between sensor pad and connectivity box

Connectivity box

Electronic monitoring unit with interface to SafeSense® software and to the call system, as well as a differential pressure sensor for detecting the transmitted signals

Sensoric LED bed light

Integrated LED underbed light for better orientation at night

360° networked care

Relief of your nursing staff for the wellbeing of your residents

Movement monitoring

- Information about lack of exercise in bed
  → Detection of pressure injury risks
- 24 h motion profile
  → Data history for anamnesis
- Effective storage management
  → More time for care

Bed exit monitoring

- Overview of bed occupancy
  → Transparency for the entire care sector
- Bed exit indication silent or via call system
  → Resident-individual setting
- Effective prioritization of control rounds
  → For relief during night and weekend shifts

360°
Networked care

Pressure injury prevention · Residents with pressure injuries

Falls prevention · Residents at risk of falling

Future-proof sensor platform · Digital investment risk

Mobile care monitoring · Extensive paper documentation

Open system architecture

- Compatible with current operating systems
  → Windows, Android, iOS
- Flexibly expandable functionality
  → Retrofittable, future-proof solution
- Compatible with modern care infrastructure
  → Wi-Fi*, LAN* and radio (nurse call)

Connectivity + monitor

- Care monitor for smartphone, tablet and PC*
  → High transparency due to the traffic light principle
  → 24 h continuous resident monitoring in bed
  → Important information for care planning
    and documentation
- Direct data access at the point of care
  → Flexible, time-saving and individual application
- Encrypted, local data storage
  → 100% data protection

Mobile devices

PC

SafeSense® 3 optimizes information and time management in everyday nursing care by means of automatically processed health data. This data facilitates nursing decisions and documentation while, at the same time, relieving the burden on nursing staff.

Protection against the development of pressure injury

Digital care assistant SafeSense® 3

Protection against severe consequences of falls

"With SafeSense® 3, health data is collected everywhere where before none was available. Conventional monitoring systems are not replaced, but optimally supplemented."

Michael Memelink, Medical Computer Scientist

Satisfied residents

due to a higher care quality

+ 24 h monitoring provides valuable information about lack of movement, nightly restlessness and lack of sleep.

+ Support in the prevention of pressure injury and fall hazards.

+ Maintaining independence and mobility through bed-exit monitoring.

+ Adaptation of the security level to the individual resident risk.

"SafeSense® 3 relieves the care personnel, connects modern monitoring with data analysis and increases the quality of the support and therapy."

Dr. med. Karl Fritscher

Variants

Article no. 10-0827
For use on sentida 1-6

Standalone

Article no. 50-0880
For use on multiple care beds

# Moisture Assistant (optional)

Sensory overlay with monitoring and call function

If moisture is detected in the bed, a silent alarm is transmitted to the monitoring system of SafeSense® 3 and, if necessary, a call is also sent to the in-house call system.

The Moisture Assistant detects moisture in the bed at an early stage and helps to better protect residents from maceration and pressure injury.
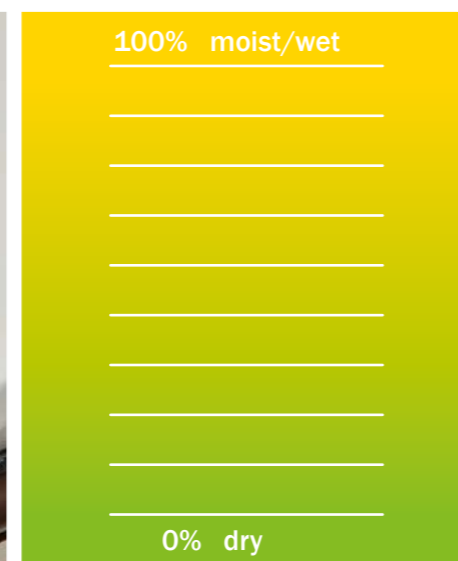
Cotton sensor sheets, washable at 60°C

Moisture scale

100%   moist/wet

0%   dry

Approx.
75%
of all residents
of care and nursing homes
suffer from incontinence.

In absolute terms, this
amounts to approximately

675,000
residents
in German nursing homes.

(Source: www.bvmed.com from 3-1-2019)

Incontinence protection

A moisture sensor sheet made of washable cotton detects moisture in the bed and protects the resident from maceration in case of incontinence. It supports continence training and strengthens the resident's dignity.

Excellent prospects

Equipped for the future

Further functions to relieve the nursing staff are in preparation:
Vital data at a glance – with SafeSense®


Respiratory rate   Heart rate

+ Collect important vital data through contactless vital data monitoring in real-time transmission, which can be clearly read on the SafeSense® care monitor and on mobile devices.

+ Look after the health of your residents by detecting medical warning signals early on.

+ Collect data without disturbing the resident. Their presence in bed is enough to monitor the state of health wirelessly and continuously.

+ SafeSense® 3 is already prepared for an easy upgrade. A complex hardware conversion is not necessary.

Open system for sensory acquisition of further information

A safe and reliable overview of the most important **vital parameters every day**
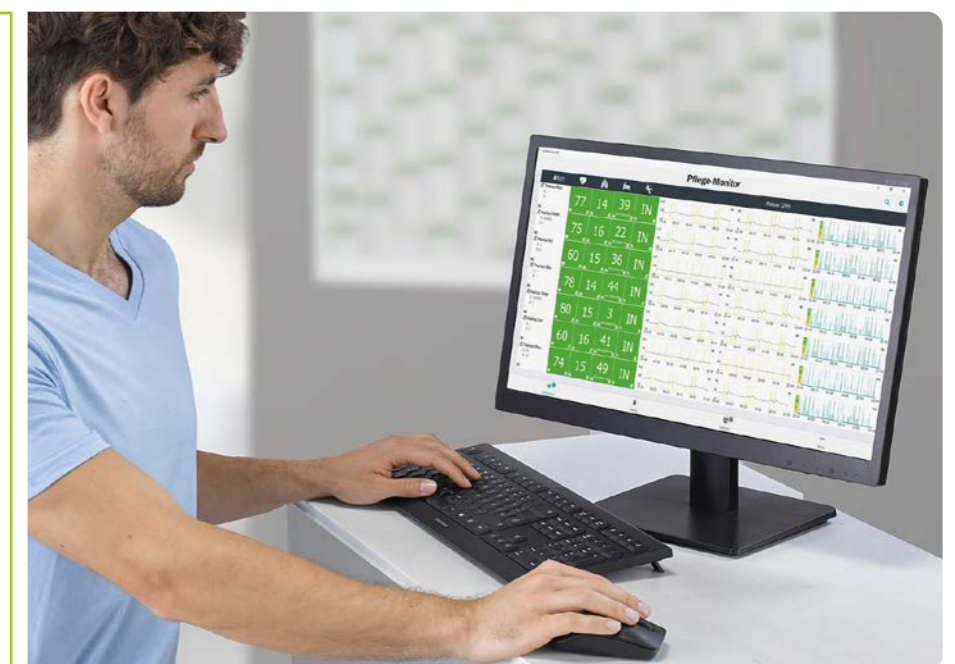
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