CareMat B

The pressure-sensitive mat for supervision of people with dementia and disorientation

RoHS   CE

Product Description

CareMat is used in retirement and nursing homes as well as in hospitals and similar facilities. It is placed beside the patient's bed or by the room door exit. In both cases the CareMat is connected to the in-house nurse call system. As soon as the person leaves the bed or the room he will step onto the CareMat and a signal is triggered via the nurse call system. This allows the personnel on duty to establish at any time of the day or night, when and where a patient got out of bed or is leaving the room. As a result, CareMat contributes to providing assistance immediately, thus significantly reducing the risk of falls or the danger of patient wandering.

Features

- Dimensions 700 x 400 mm
- Hard-wired and wireless versions
- A robust and reliable alarm sensor
- Hygienic: Easy to clean and resistant to bodily fluids

Selection chart

| CareMat | B | 0 | 1 | T | E868 |

Dimension code

A	1100 x 700 mm
B	700 x 400 mm
C	1100 x 700 mm, semi-circular
M	283 x 202 mm, sample

Colour code

0	Careyellow
1	Caregrey

Case code

1	56 x 38 x 9.6 mm
5	Ekahau A4 WiFi Tag

Type code

E	Empty
C	Open cable head
P	PCB, additional functions
T	Transmitter

Transmitter type code

B434	TeleAlarm 434.01 MHz
E868	ELDAT 868.30 MHz
L433	Lehmann electronic 433.92 MHz
L869	Lehmann electronic 869.2125 MHz
L869.23	Lehmann electronic 869.2375 MHz
EK2.4	Ekahau 2.4 GHz

Content

Model list

Product		Colour	Part number	Description
CareMat	B01E	Careyellow	303418	700 x 400 mm / empty housing
	B11E	Caregrey	357812	
CareMat	B01C	Careyellow	303417	700 x 400 mm / cable
	B11C	Caregrey	357811	
CareMat	B01P	Careyellow	307497	700 x 400 mm / universal PCB with cable
	B11P	Caregrey	357813	
CareMat	B01T B434	Careyellow	303386	700 x 400 mm / TeleAlarm radio transmitter 434.01 MHz
	B11T B434	Caregrey	357809	
CareMat	B01T E868	Careyellow	303388	700 x 400 mm / ELDAT radio transmitter 868.30 MHz
	B11T E868	Caregrey	357810	
CareMat	B01T L433	Careyellow	336672	700 x 400 mm / Lehmann radio transmitter 433.92 MHz
	B11T L433	Caregrey	357814	
CareMat	B01T L869	Careyellow	336675	700 x 400 mm / Lehmann radio transmitter 869.2125 MHz
	B11T L869	Caregrey	357815	
CareMat	B01T L869.23	Careyellow	356639	700 x 400 mm / Lehmann radio transmitter 869.2375 MHz
	B11T L869.23	Caregrey	357816	
CareMat	B05T EK2.4	Careyellow	338781	700 x 400 mm / Ekahau A4 WiFi Tag 2.4 GHz
	B15T EK2.4	Caregrey	357817	

Technical Specifications

Characteristics

■ CareMat General

Dimensions	Surface: 700 x 400 x 9.5 mm / height standard case 1: 14.5 mm, height Ekahau WiFi case 5: 20 mm
Weight	3.2 kg
Material	Polyurethane PU
Colour	Careyellow / Caregrey
Surface	Nub structure with sloped edges
Person activation weight	Min. 10 kg
Chemical resistance	Water, bodily fluids, commercially available disinfectants, max. 70 % vol. alcohol
Protection class	IP54, dust- and splash-proof
Temperature range	0 to +55 °C

■ CareMat versions with cable

CareMat B01E / B11E

Connection	This CareMat can be equipped by cable or various transmitters.
EC-Conformity	RoHS 2011/65/EU

CareMat B01C / B11C

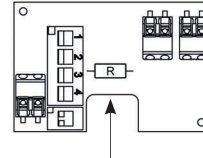|	
Cable	Length 3 m, diameter 5.2 ± 0.2 mm, cable colour white
Cable type	4-wire, LiYYv 4 x 0.34 mm², wire colours BN/YE/GN/WH, open cable head
Cable as spare part	According to above specifications available, part number 307131
Signal output	Normally open contact (NO)
Admissible capacity	Max. 50 mA at 48 V AC/DC
EC-Conformity	RoHS 2011/65/EU, GPS2001/95/EC

CareMat B01P / B11P

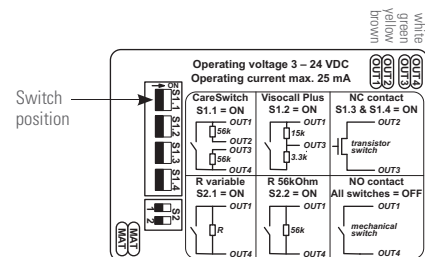|	
Cable	Length 3 m, diameter 5.2 ± 0.2 mm, cable colour white
Cable type	4-wire, LiYYv 4 x 0.34 mm², wire colours BN/YE/GN/WH, open cable head
Cable as spare part	According to above specifications available, part number 307131
Signal output	Normally open contact (NO) or resistance monitoring (acc. to VDE 0834)
Operating voltage	3-24 VDC
Operating current	Max. 25 mA
EC-Conformity	RoHS 2011/65/EU, EMC 2014/30/EU
Functionalities universal PCB	The CareMat B01P / B11P (P = circuit board) includes a universal circuit board in the housing. The universal circuit board can be adapted to your needs by altering the switch positions. The wiring on the universal circuit board must not be removed. The connections are protected against wrong polarity of input voltage.

Variable resistance R

The universal circuit board has two connector sockets for commercially-available wired resistors. A call resistor that is specifically for the call system for line monitoring can be installed in this. The connecting wiring should have a diameter between 0.38 and 0.56 mm. The socket spacing should be 14 mm.

NC contact

The NC (normally closed) contact option, which can be selected on the universal PCB, is a transistor circuit. It operates according to the quiescent current principle. If the CareMat is not actuated, a quiescent current flows through the NC contact as a result of the externally applied voltage. If the resident / patient actuates the CareMat by stepping on it, this NC contact is opened. This can be detected by a nurse call system operating according to the quiescent current principle that monitors the current flow.

■ **CareMat wireless versions**

CareMat B01T B434 / B11T B434

Radio transmitter	TeleAlarm, 1 channel, unidirectional
Radio frequency	434.01 MHz, TeleAlarm protocol
Radio range	up to 30 m in buildings, dependent on structural building conditions (up to 250 m in free field)
Battery type	1 x CR2032, 3V Lithium button cell
Battery lifetime	3 years (at 3 alarms and 1 daily test transmission)
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat B01T E868 / B11T E868

Radio transmitter	ELDAT, 1 channel, unidirectional
Radio frequency	868.30 MHz, EasyWave® protocol
Radio range	up to 30 m in buildings, dependent on structural building conditions (up to 250 m in free field)
Battery type	1 x CR2032, 3V Lithium button cell
Battery lifetime	2 years
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat B01T L433 / B11T L433

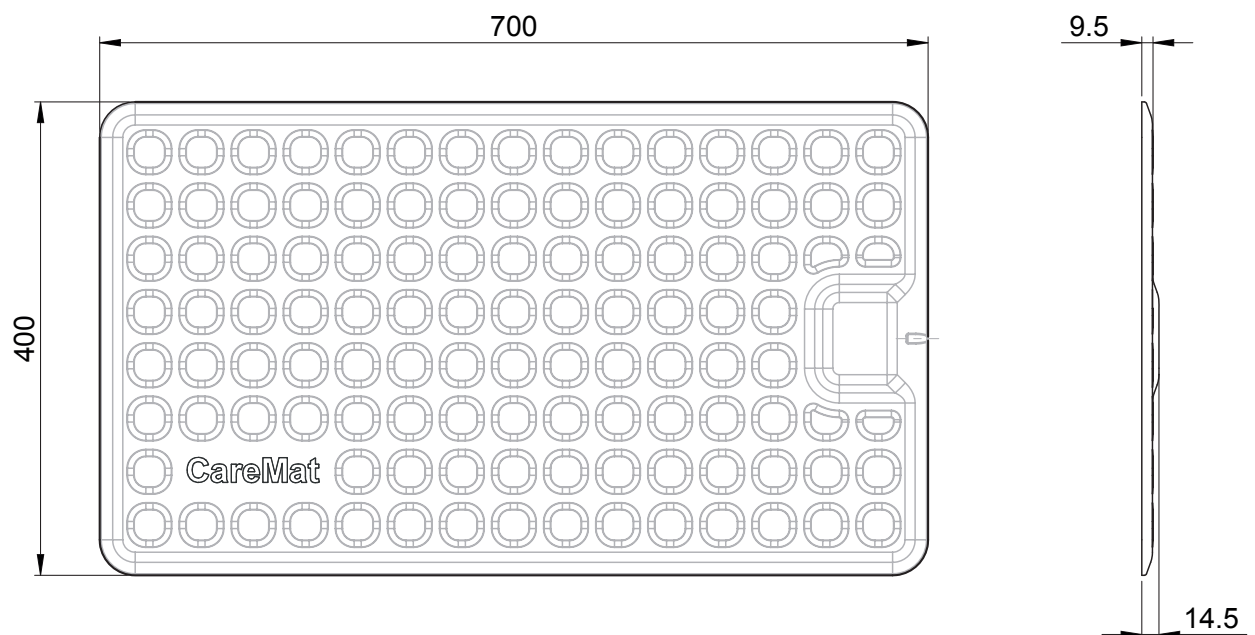|	
Radio transmitter	Lehmann electronic VarioRec®, 1 channel, unidirectional
Radio frequency	433.92 MHz, VarioRec® protocol
Radio range	up to 30 m in buildings, dependent on structural building conditions (up to 100 m in free field)
Battery type	1 x CR2032, 3V Lithium button cell
Battery lifetime	3 years
Battery monitoring	Battery low message
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat B01T L869 / B11T L869

Radio transmitter	Lehmann electronic VarioRec®, 1 channel, unidirectional
Radio frequency	869.2125 MHz, VarioRec® protocol
Radio range	up to 30 m in buildings, dependent on structural building conditions (up to 100 m in free field)
Battery type	1 x CR2032, 3V Lithium button cell
Battery lifetime	3 years
Battery monitoring	Battery low message
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat B01T L869.23 / B11T L869.23

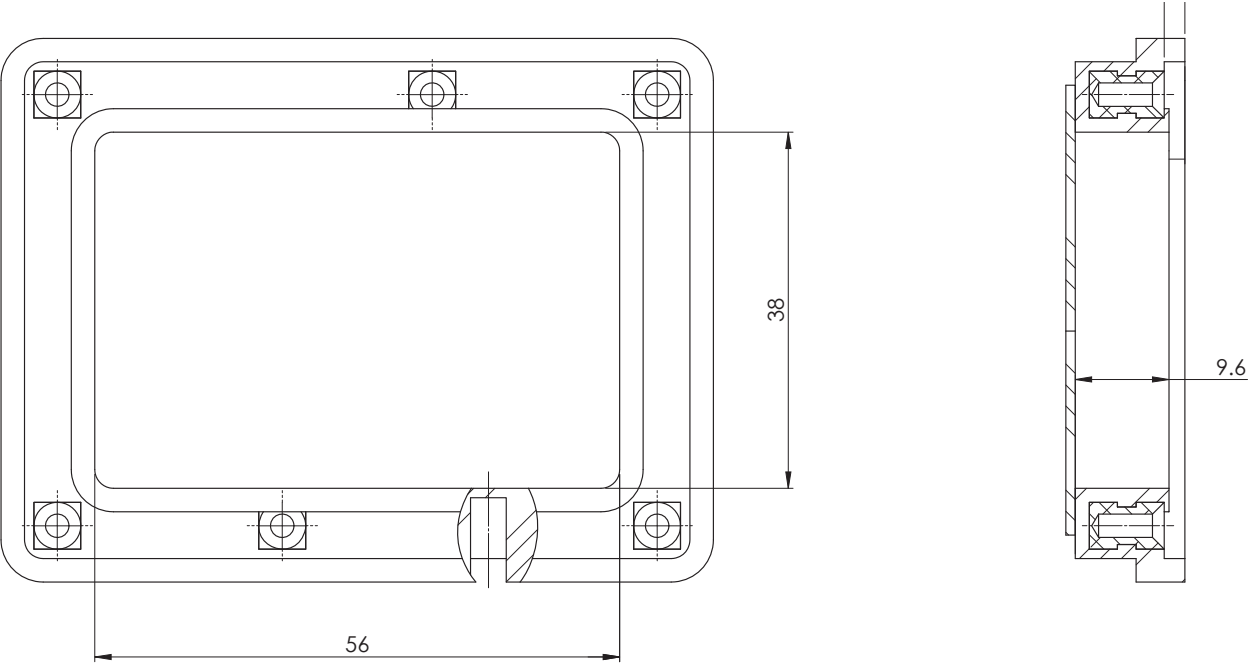|	
Radio transmitter	Lehmann electronic VarioRec®, 1 channel, unidirectional
Radio frequency	869.2375 MHz, VarioRec® protocol
Radio range	up to 30 m in buildings, dependent on structural building conditions (up to 100 m in free field)
Battery type	1 x CR2032, 3V Lithium button cell
Battery lifetime	3 years
Battery monitoring	Battery low message
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat B05T EK2.4 / B15T EK2.4

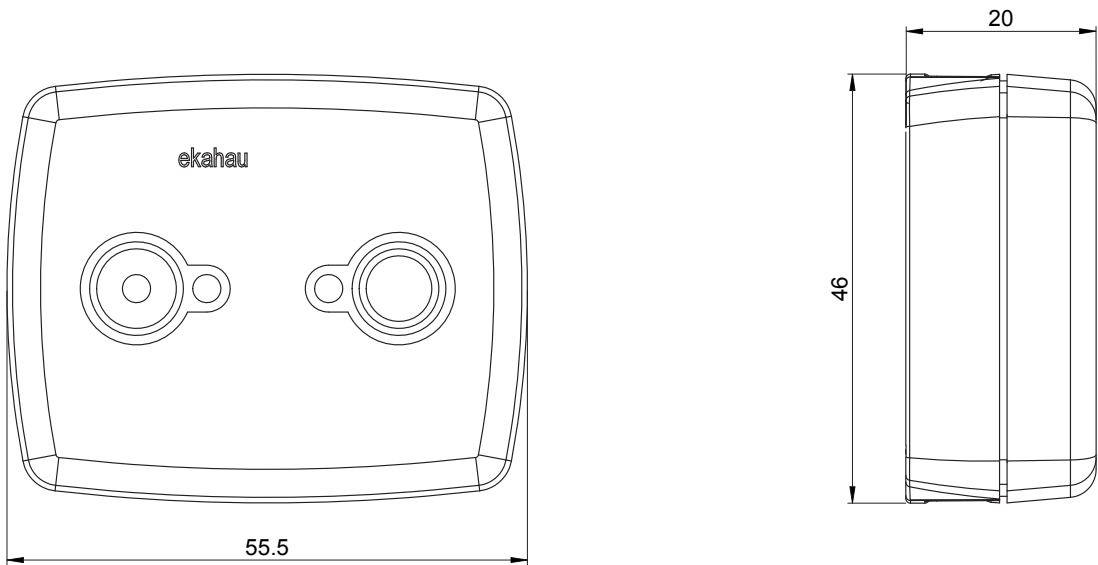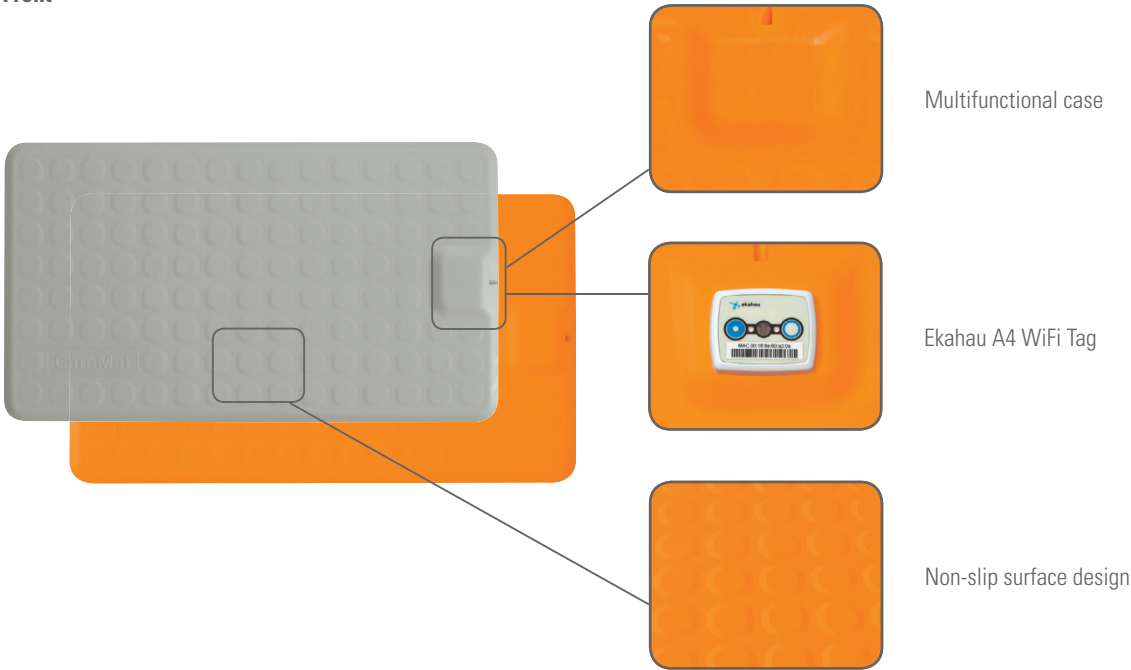|	
Radio transmitter	Ekahau A4 WiFi Tag
Radio frequency	802.11b/g 2.4GHz Wi-Fi networks
Radio range	up to 40 m @ 11Mbit/s in buildings, dependent on structural building conditions (up to 60 m @ 2Mbit/s in free field)
Battery type	2 x CR2, 3V Lithium round cell
Battery lifetime	18 months (in 24h by 4 interval alive events / 2 CareMat movement events / 3 person step on events)
Battery monitoring	Battery low message
EC-Conformity	RoHS 2011/65/EU, RED 2014/53/EU

CareMat Dimensions

1 Case Dimensions (Standard)

38

9.6

56
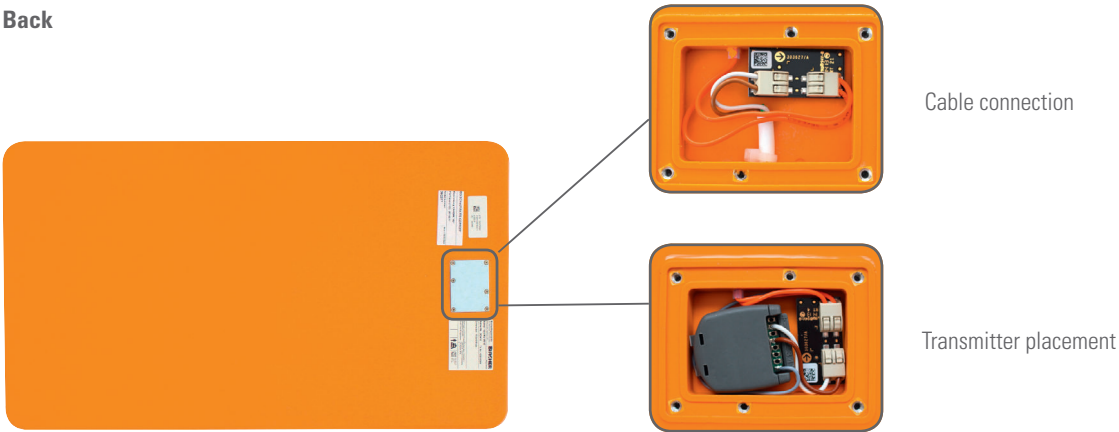
5 Case Dimensions (Ekahau)

ekahau

20

46

55.5

Product Details

Front

Multifunctional case

Ekahau A4 WiFi Tag

Non-slip surface design

Back

Cable connection

Transmitter placement

Packaging

For more information contact

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SUSTAINABLE CERTIFICATION
✓ ISO 9001
✓ AS/NZS 4801
✓ ISO 14001

JAS-ANZ