CareMat A

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

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 and connected to the in-house nurse call system. As soon as the person leaves the bed and steps onto the CareMat, 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. As a result, CareMat contributes to providing assistance immediately, thus significantly reducing the risk of falls or the danger of patient wandering.

Features
- Dimensions 1100 x 700 mm
- Hard-wired and wireless versions
- A robust and reliable alarm sensor
- Hygienic: Easy to clean and resistant to bodily fluids

Selection chart

<table>
<thead>
<tr>
<th>Dimension code</th>
<th>A 1100 x 700 mm</th>
<th>B 700 x 400 mm</th>
<th>C 1100 x 700 mm, semi-circular</th>
<th>M 283 x 202 mm, sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour code</td>
<td>0 Careyellow</td>
<td>1 Caregrey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case code</td>
<td>1 56 x 38 x 9.6 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type code</td>
<td>E Empty</td>
<td>C Open cable head</td>
<td>P PCB, additional functions</td>
<td>T Transmitter</td>
</tr>
<tr>
<td>Transmitter type code</td>
<td>B434 TeleAlarm® 434.01 MHz</td>
<td>E868 ELDAT 868.30 MHz</td>
<td>L433 Lehmann electronic 433.92 MHz</td>
<td>L869 Lehmann electronic 869.2125 MHz</td>
</tr>
</tbody>
</table>

The EU Declarations of Conformity are available at the following address: https://smartaccess.bircher.com/en/downloads/
## Model list

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01E</td>
<td>303413</td>
</tr>
<tr>
<td></td>
<td>Caregrey</td>
<td>A11E</td>
<td>357800</td>
</tr>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01C</td>
<td>303410</td>
</tr>
<tr>
<td></td>
<td>Caregrey</td>
<td>A11C</td>
<td>357789</td>
</tr>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01P</td>
<td>307485</td>
</tr>
<tr>
<td></td>
<td>Caregrey</td>
<td>A11P</td>
<td>357903</td>
</tr>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01T B434</td>
<td>303415</td>
</tr>
<tr>
<td></td>
<td>Caregrey</td>
<td>A11T B434</td>
<td>357801</td>
</tr>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01T L433</td>
<td>336635</td>
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<tr>
<td></td>
<td>Caregrey</td>
<td>A11T L433</td>
<td>357905</td>
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<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01T L869</td>
<td>336670</td>
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<td></td>
<td>Caregrey</td>
<td>A11T L869</td>
<td>357908</td>
</tr>
<tr>
<td>CareMat</td>
<td>Careyellow</td>
<td>A01T T868.8</td>
<td>429236</td>
</tr>
<tr>
<td></td>
<td>Caregrey</td>
<td>A11T T868.8</td>
<td>429238</td>
</tr>
</tbody>
</table>

## Technical Specifications

### Characteristics

**CareMat General**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>1100 x 700 x x 9.5 mm / height standard case 1: 14.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>8.2 kg</td>
</tr>
<tr>
<td>Material</td>
<td>Polyurethane PU</td>
</tr>
<tr>
<td>Colour</td>
<td>Careyellow / Caregrey</td>
</tr>
<tr>
<td>Surface</td>
<td>Nub structure with sloped edges</td>
</tr>
<tr>
<td>Person activation weight</td>
<td>Min. 10 kg</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>Water, bodily fluids, commercially available disinfectants, max. 70 % vol. alcohol</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP54, dust- and splash-proof</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0 to +55 °C</td>
</tr>
</tbody>
</table>

### CareMat versions with cable

**CareMat A01E / A11E**

Connection: This CareMat can be equipped by cable or various transmitters.

**CareMat A01C / A11C**

Cable: Length 3 m, diameter 5.2 ± 0.2 mm, cable colour white

Cable type: 4-wire, LYYv 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
**Characteristics**

**CareMat A01P / A11P**

- **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 V DC

- **Operating current**
  - Max. 25 mA

**Functionalities universal PCB**

- The CareMat A01P / A11P (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 A01T B434 / A11T 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, 3 V Lithium button cell

- **Runtime; battery**
  - 3 years (at 3 alarms and 1 daily test transmission)

#### CareMat A01T E868 / A11T 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, 3 V Lithium button cell

- **Runtime; battery**
  - 2 years

#### CareMat A01T L433 / A11T 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, 3 V Lithium button cell

- **Runtime; battery**
  - 3 years

- **Battery monitoring**
  - Battery low message

#### CareMat A01T L869 / A11T 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, 3 V Lithium button cell

- **Runtime; battery**
  - 3 years

- **Battery monitoring**
  - Battery low message
Characteristics

CareMat A01T T868.8 / A11T T868.8

Radio transmitter: TeleAlarm® UP25A80; Signalling protocol TeleAlarm® NurseCall 8

Radio frequency: 868.8 MHz bidirectional

Radio range: up to 30 m in buildings, dependent on structural building conditions (up to 100 m in free field)

Battery type: 1x CR2430, 3 V Lithium

Runtime; battery: depending on use up to 2.5 years

Battery monitoring: Battery low message

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CareMat Dimensions

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Case Dimensions (Standard)
Product Details

Front

- Multifunctional case
- Non-slip surface design
- Cable connection
- Transmitter placement

Back

Packaging

Find out more about the product online
www.caremat.ch