

Product Fact Sheet

P200: All variants



1 Product Description

The Companion is designed to alert a remote caregiver to possible seizure activity in a user's bed.

2 Fact Sheet Revision History

Issue	Changes	Date	Author	Date	Approver
1	First Release	20/06/22	J. R	20/06/22	R. G
2					
3					

3 Product Variants

Product variants are indicated with the following nomenclature;

P200 [FEATURE SET] [RADIO VARIANT] [BRANDING]

3.1 Feature Set

Letter Code	Description
C	Companion

3.2 Radio Variants

Letter Code	Description
A	434.075 MHz
B	869.2125 MHz

3.3 Branding Options

Letter Code	Description
A	Alert-iT
B	Leisner ApS
C	Picomed
D	Taken
E	Taken
F	Taken
G	

For example: **P200CBA** is a “Companion, 869 MHz radio with Alert-iT Fascia”.

4 Product Specifications

4.1 Inputs

Function	Input Type	Description
Bed Movement	Phono	Analogue Input. <1mV to 1V
Moisture	RJ12	Sensitivity Range 2 to 160kΩ Pin 3 & 4.
Bed Occupancy Input	RJ12	Pin 2 & 6 = Occupancy Input (Normally Open).

4.2 Outputs

Function	Output Type	Description
Display	2x 16 Character LCD	With backlight controlled by ambient light sensor
Wired Output	RJ12	Pin 1 = Alarm Output: Normally Closed. Pin 3 = Alarm Output: Normally Open. Pin 4 = Alarm Output: Common. Pin 5 = Not connected.
Radio	434.075MHz or 869.2125MHz	600 meters range (Line of sight)
Bluetooth	BLE	10m (Line of sight)

4.3 Electrical

Function	Description
Input Voltage	N/A. Battery powered only.
Battery life	3 months to 14 months dependant on usage.
Charge Time	N/A. Not rechargeable.
Batteries	2x Alkaline Non-Rechargeable Batteries, 1.5v, LR6.

4.4 Mechanical

4.4.1 Control Unit

Function	Description
Sealing	IP20 (Not waterproof)
Case Material	White ABS. Anti-microbial.
Weight	170g
Height	89mm
Width	89mm
Depth	30mm
Fascia Material	Microban Polyester. ISO22196.

4.5 Operating Environment

Description	Specification
Operating Temp	5°C to 35°C (Used indoors)
Humidity	90% max. (non-condensing)

4.6 Classification

Description	Specification
Medical Device	Class 1
Markings	CE, UKCA.

5 Approved accessories

5.1 Sensors

Part Number	Description
P140A	Movement Sensor (Light weight pad)
P140B	Movement Sensor (Standard weight pad)
P143CAB	Occupancy Sensor (Bed Mat. Large)
P143CBB	Occupancy Sensor (Bed Mat. Small)
P143GAB	Occupancy Sensor (Bed Ribbon. Long)
P144B	Occupancy Sensor (Bed Wedge Leg Sensor)
P142A	Moisture Sensor. (Instant Cotton Bed Sheet)
P142F	Moisture Sensor. (Instant Cotton Pillow Sheet)
P142E	Moisture Sensor. (Absorbent Bed Sheet)
P141B	Moisture Sensor (Moisture Cable)

5.2 Accessories

Part Number	Description
P159D	Bed Hook
P133H	RJ12 Splitter (Allows wired output and bed input to be used together)
P195X	Wireless Armband for Pulse (Various Strap Colours)
P145XX	Nurse Call Leads (various)

5.3 Receiving Equipment

Part Number	Description
P168	Plesio Pager
P137XXX	Advanced Pager (Various Models)
P155B	Connect-iT Nurse Call Receiver
P199	Carer Call Wall Display
P190	Alert-iT Logging Hub

6 Power Consumption

Different sensors use a different amount of power. Please look at the current consumption table on the bottom of this page.

Current consumption results are calculated as a differential measurement of "Turned on – Idle" current. If measurement was taken in long time average, we can assume that idle = 171uA.

Mode	Current (uA)
Turned off	72
Turned on – Idle	171
Advertising	75
Screen On	240
Radio On	24
Bed Vacation	17 when in bed. 0 out of bed.
Sound	316
Moisture (20s detection interval)	50
Pulse Monitoring via BLE	143
Scanning for BLE accessory	799
Alarm Active	3429
Syncing Signal or Event Log (Max 6 mins)	1529

Expected battery life is primarily dependant on what monitoring features are enabled, how many alarm events happen per day, and what the response time to each alarm is.

Therefore, typical battery life can range all the way up to 439 days best case, down to 111 days worst case (e.g. all monitoring features enabled).