

Care@Home™ MDsense

Multi-dimensional fall sensor



Using an advanced fall detection algorithm with state-of-the-art technology, this wireless fall sensor does not require the resident to wear any detection device. When integrated with Care@Home™, the MDsense can detect a resident's fall regardless of whether the room is brightly lit or completely dark. The MDsense is the perfect fall sensor for any home or retirement facility. It features:

- Multi-zone lens for exceptional coverage
- Effective detection distance: Up to 4 x 4 m (13 x 13 ft.)
- Supports pet immunity up to 30 kg (66 lbs.)
- LED indication of fall detection
- Extreme temperature detection
- Water resistant for use near bathing areas
- Optional features:
 - AC power supply
 - Emergency pull cord
- Remote management and support capabilities:
 - Automatic software upgrade
 - Programming and configuration
 - Troubleshooting



Essence Care@Home™ enables families to be confident that their dear ones are cared for, while end-users are able to maintain their independent lifestyle. The award-winning Care@Home™ Multi-Service Platform is an Aging-in-Place product suite that offers seamless home care monitoring indoors and outdoors, allowing independence for seniors and peace of mind to their loved ones. Essence is spearheading a paradigm shift in seniors' Aging in Place experience.



SPECIFICATIONS



COMMUNICATIONS

- **Maximum RF range:** Up to 700 m (2,297 ft.) – open air
- **Protocols:** Proprietary bi-directional radio protocol
- **Modulation and frequency:** FSK modulation:
 - 869.225 MHz (Europe)
 - 916.5 MHz (North America and Australia)
 - 916.3 MHz (Israel)
 - 922.5 MHz (Thailand)
- **Data security:** 32-bit ID, over 4 billion combinations

SAFETY

- Indication: LED
- Extreme temperature sensing and reporting

POWER

- **Input:** Optional AC power supply:
 - 100-240 VAC
 - 50/60 Hz
- **Batteries:** 4 x 1.5V C alkaline batteries
- **Battery life:** At least 12 months, when using batteries alone under typical conditions
- **Battery models:**
 - Energizer EN93, E93
 - Panasonic Powerline LR14AD

DIMENSIONS

- **Size (H x W x D):** 130 x 70 x 74 mm - 5.12 x 2.8 x 2.9 in.
- **Weight:** (including batteries): 500 g (1.1 lbs.)

ENVIRONMENT

- **Storage ambient temperature range:** -20°C — 60°C (-4°F — 140°F)
- **Operating ambient temperature range:** -10°C — 55°C (14°F — 131°F)
- **Water and dust resistant:** IP54 compliant, when pull cord or socket cover inserted

COMPLIANCE

- EN 300 220-1
- EN 300 220-3-1
- EN 301 489-1
- EN 301 489-3
- EN 61000-6-3
- EN 50130-4
- EN 62368-1
- EN 50134-2
- EN 50130-5, Environmental Class II
- FCC CFR 47 Part 15
- RSS-210
- ICES-003
- UL 1637
- CSA 22.2 #205
- AS4607

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