CONNECT

LiviSense

MHUB ESSENTIAL

Product name: MHub Essential
Model no.: 02301

PRODUCT SHEET

MHub Essential brings compatible alarms and devices from the LiviSense range, Cavius Wireless Alarm Family and Fito Wireless Family together in one connected safety system.

Through the relevant app, you can monitor your system remotely, receive immediate alerts, get smart reminders and keep a clear overview of your connected devices.



Protect what matters

www.livisense.com

Download on the App Store

GET IT ON Google Play

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APP CONTROLLED

STAY INFORMED

2.4 GHZ WI-FI

CONNECT DEVICES

BLUETOOTH SETUP

DATA PROTECTION

IMMEDIATE ALERTS

DANISH DESIGN

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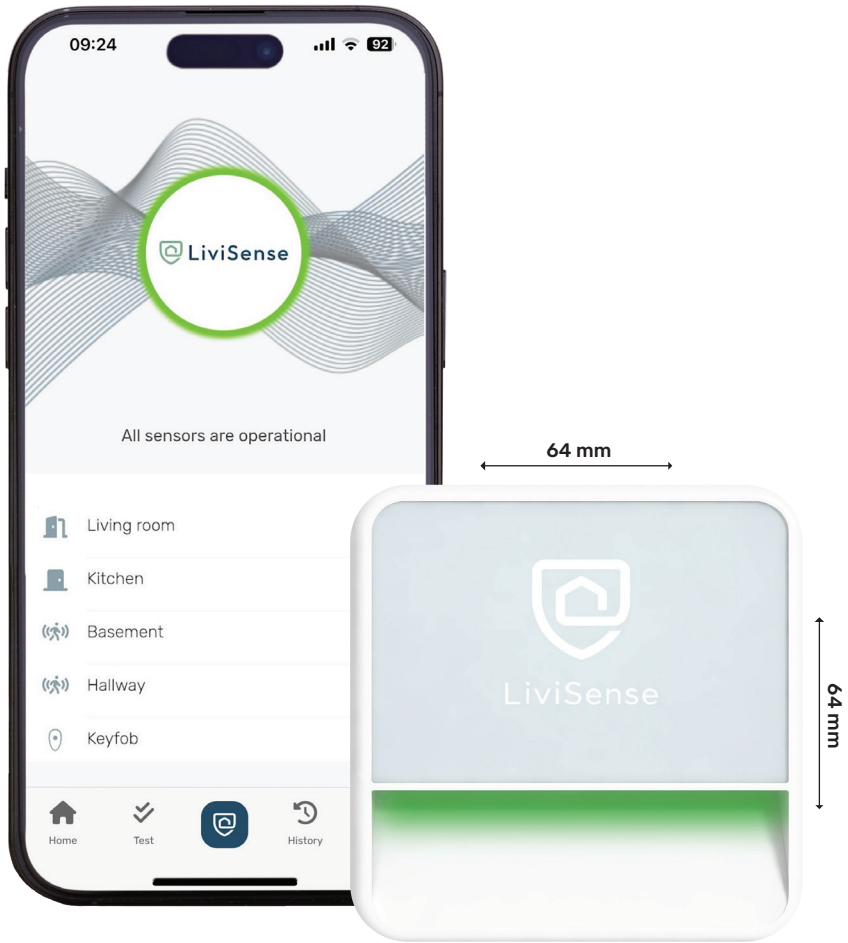

General:
Dimensions: 64 × 64 × 22
Weight: 48 g
Color: White

Environment:
Indoor use only
Protection rating: IP20
Operating temperature: –20°C to +45°C
Operating humidity: 10–90% RH (non-condensing)

Wi-Fi Connectivity:
Wi-Fi standard: IEEE 802.11 b/g/n (2.4 GHz)
Security: WPA2-Personal (AES/CCMP) and WPA3-Personal (SAE), including WPA2/WPA3 transition mode
Frequency band: 2400–2483.5 MHz
Maximum transmit power (EIRP): 20 dBm (100 mW)
Range: up to 100 m with clear line of sight

Bluetooth Connectivity:
Bluetooth Low Energy (BLE) 4.2 for setup
Frequency band: 2400–2483.5 MHz
Maximum transmit power (EIRP): 9 dBm
Range: over 10 m with clear line of sight, depending on the connected device and environmental conditions

RF Connectivity:
Protocol: Proprietary wireless protocol
Operating frequencies: 868.65 MHz and 869.675 MHz
Encryption: AES-128 for compatible RF devices
Maximum transmit power (ERP): ≤ 10 dBm at 868.65 MHz; ≤ 14 dBm at 869.675 MHz Range: over 300 m with clear line of sight

Offline Capabilities:
Local alarm triggering based on configured sensor events
Alarm arming and disarming via compatible, previously configured RF accessories

Connection Monitoring:
Cloud-generated notification when the hub stops reporting, based on missing heartbeat messages

Status Indicators (LED):
Solid green: Connected to the cloud service
Pulsing green: Connecting to the cloud service
Pulsing blue: Bluetooth/setup mode
Red: Starting up or network connection unavailable

Power supply & consumption:
Power input: 5 V DC, 1 A
Connector: USB-C
Typical power consumption: < 0.5 W, including power adapter
Estimated annual energy consumption: < 5 kWh, based on continuous operation under typical conditions

Cybersecurity:
Developed in accordance with ETSI EN 303 645 V2.1.1
Signed over-the-air (OTA) firmware updates
Flash encryption
Secure boot with firmware signature verification
Hardware protection of security keys and settings using eFuses
TLS 1.2 support

Certifications & compliance:
CE marked — Radio Equipment Directive (RED) 2014/53/EU
RoHS compliant
REACH compliant
UKCA marked

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