GreenVibe
concrete data

1 **SENSE**
Measures concrete curing and strength development

→

2 **DEVICE**
Collects Sense™ data and transmits wirelessly

→

3 **HUB**
Receives data from up to 40 Devices and connects to the cloud

→

4 **GREENVIBE APP PLATFORM**
Remote visualization, analysis, storage and project records

GreenVibe Device | Model AS-0027

Wireless monitoring gateway connecting GreenVibe Sense™ sensors with the GreenVibe HUB and monitoring platform.

30-60 min	IP67
sampling interval	rugged enclosure
10,000 mAh	**135 days**
LiPo battery capacity	expected battery life



PRODUCT OVERVIEW

GreenVibe Device is a wireless gateway designed to collect monitoring data from compatible GreenVibe Sense™ sensors and securely transmit it to the GreenVibe monitoring platform through the GreenVibe HUB. Designed for demanding construction environments, it enables automated real-time data collection, centralized monitoring and remote access to project information.

- Wireless communication with GreenVibe HUB
- Cable communication with GreenVibe Sense™
- Automatic real-time data collection and transmission
- Rugged IP67-rated enclosure
- Long-duration rechargeable battery operation
- Designed for construction and infrastructure applications

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Product name	**GreenVibe Device**
Model number	**AS-0027**
HUB type	**Wireless monitoring gateway**
Ingress protection	**IP67**
Dimensions	**150 × 76 × 37 mm**
Weight	**440 g**
Enclosure material	**ABS**
Maximum connected Devices	**1**
Sampling interval	**30-60 minutes**

PARAMETER	SPECIFICATION
Battery type	**LiPo**
Battery capacity	**10,000 mAh**
Expected battery life	**135 days**
Charging method	**USB Type-C**
Full charging time	**10 hours**
Operating temperature	**< 65°C**
Storage temperature	**< 85°C**
Operating humidity	**Up to 100% RH**

OPERATING PRINCIPLE & SYSTEM INTEGRATION

GreenVibe Device communicates via cable with GreenVibe Sense™ sensors throughout the concrete curing process. The gateway securely transmits collected data through the GreenVibe HUB to the GreenVibe monitoring platform, where project teams can remotely monitor sensor status, visualize curing progress, analyze project data and maintain comprehensive project records.

TYPICAL APPLICATIONS

- Building foundations
- Suspended slabs
- Columns
- Walls
- Bridge decks
- Infrastructure
- Industrial construction
- Large concrete pours
- Precast manufacturing

PERFORMANCE BENEFITS

- Automated data collection
- Reduced manual data retrieval
- Continuous remote monitoring
- Centralized project data management
- Improved quality assurance documentation
- Enhanced project visibility
- Faster engineering decision-making
- Reliable communication across the monitoring network

SETUP OPERATION - QUICK REFERENCE

- Power ON/OFF: press the Power button for 5 seconds
- Automatic transmission every 30 minutes
- Manual transmission: press Transmission for 2 seconds
- Charging LED: green while charging
- Battery LED: blinking red below 20%
- Power LED: red for 3 seconds when turning OFF

INSTALLATION - QUICK REFERENCE

- Position the Device where reliable communication with the GreenVibe HUB is ensured
- Connect tightly to GreenVibe Sense™ and confirm the connector direction and click
- Keep the Device in a secure area protected from construction damage
- Collect and recharge the Device immediately after the monitoring period
- Disconnect the Sense™ cable gently - do not apply force
- Store clean, fully charged and free of concrete residue

POWER, COMMUNICATION & IDENTIFICATION

POWER

Outlet or PV panel power with 10,000 mAh rechargeable LiPo battery backup.

COMMUNICATION

RF to field Devices; LTE CAT-1 / HTTPS to the GreenVibe platform.

IDENTIFICATION

NFC + QR code identification.

MISCELLANEOUS

SAFETY

Professional use only. Do not disassemble or modify. Inspect the enclosure and mounting before deployment and follow site safety requirements.

WARRANTY

Warranty period: 6 months. For warranty terms and technical support, contact GreenVibe.

GREENVIBE

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