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 HUB | Model AS-0016

The central wireless communication gateway connecting multiple GreenVibe Device 2™ units on site to the GreenVibe monitoring platform.

40	IP67
max. connected Devices	rugged enclosure
10,000 mAh	**14 days**
LiPo battery capacity	backup battery life



PRODUCT OVERVIEW

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

- Wireless communication with multiple GreenVibe Device units
- Automatic real-time data collection and transmission
- Secure cloud connectivity and remote project access
- IP67-rated enclosure for harsh construction environments
- Outlet / PV power with rechargeable battery backup
- Automatic synchronization with the GreenVibe platform

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Product name	GreenVibe HUB
Model number	AS-0016
HUB type	Wireless monitoring gateway
Ingress protection	IP67
Dimensions	184 × 128 × 43 mm
Weight	520 g
Enclosure material	ABS
Maximum connected Devices	40
Minimum RSSI	-110 dB
Sampling interval	Continuous
Battery type	LiPo
Battery capacity	10,000 mAh

PARAMETER	SPECIFICATION
Expected battery life	14 days
Charging method	USB Type-C
Full charging time	10 hours
Sensor / Device communication	SimpleLink™
Cloud communication	LTE CAT-1
Wireless protocol	HTTPS
Operating frequency	RF sub-GHz (443 / 915 MHz); all LTE bands
Operating temperature	< 65°C
Storage temperature	< 85°C
Operating humidity	Up to 100% RH

OPERATING PRINCIPLE & SYSTEM INTEGRATION

GreenVibe HUB communicates wirelessly with GreenVibe Device™ units to collect monitoring data throughout the concrete curing process. It securely transmits collected data 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 wireless 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

INSTALLATION - QUICK REFERENCE

- Install as close as practical to the monitored area
- Choose a safe location protected from site operations
- Confirm cellular network or Wi-Fi connectivity
- Provide outlet power or a solar panel facing the sun
- Avoid large metal objects and rebar cages
- Recommended locations: crane, fence, site office or climbing protection screen

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.

DATA MANAGEMENT

GreenVibe HUB supports centralized collection and transmission for real-time project monitoring, historical data storage, engineering verification, quality assurance, compliance documentation, project reporting and asset lifecycle management.

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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