GIATEC

SmartRock™

Wireless Concrete Sensor for Temperature and Strength Monitoring

"SmartRock reduced our labor costs by 85%. It only took me 30 minutes to install 10 sensors.

Frank Hoffman,
Superintendent, Graham Construction

11:01

Sensor # 1

Cable | Body

🌡 **TEMPERATURE °F**

Live

145.8°

Min. Reached
130.3°

Max. Reached
150.0°

Min. Limit
50.0°

Max. Limit
158.0°

STRENGTH PSI

Live

1.7

51%

Specified
3,450

Target
75%

Overview | Temperature | Strength | Maturity | Images

Wire-Free & Wireless Technology

Remote Monitoring Capabilities

Easy Activation & Installation

Real-Time Data Collection

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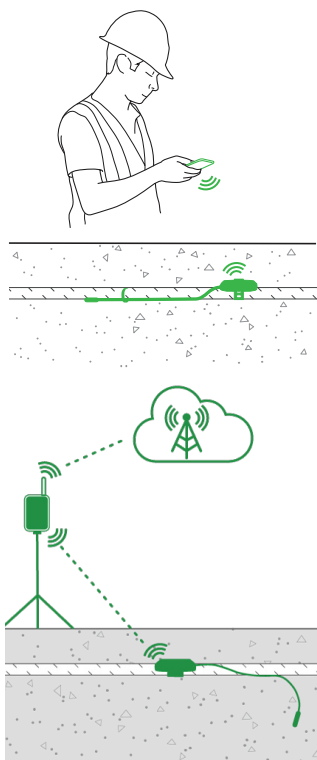

Conventional Wired Methods
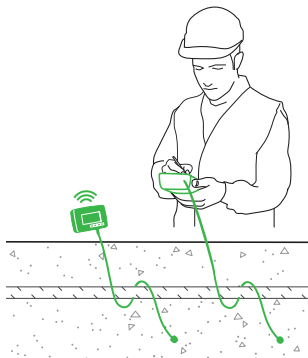
SmartRock Wireless Sensor

Overview

SmartRock is the world's leading wireless sensor for monitoring concrete curing and hardening. This fully embedded sensor attaches to rebar using a built-in strap for hassle-free installation. SmartRock collects temperature data from two points independently: (i) the probe at the tip of the cable and (ii) from inside the sensor body. Calculate in-place concrete strength automatically using the maturity method (ASTM C1074). Your results and your temperature data are always accessible remotely and in real time via the free SmartRock mobile app and the Giatec 360 dashboard.

Features

Software

- Free mobile app for Android/iOS
- Project management tools, including live data sharing
- Smart alerts and notifications
- AI analysis of concrete pouring time and mix calibration errors with Roxi™

Hardware

- Wire-free and wireless technology
- Rugged and fully waterproof, specifically designed to be embedded in concrete
- Two independent temperature measurements from cable and body sensors
- 24/7 remote monitoring capabilities with the SmartHub™

Benefits

- Measure temperature differentials in mass concrete
- Optimize curing conditions
- Accelerate formwork removal and post-tensioning
- Control quality in the field
- Open roads to traffic and finish tilt up construction sooner

Technical Specifications

Reading Range
–22 to +181 °F (–30 to 85 °C)

Measurement Accuracy
± 1.8 °F (± 1°C)

Measurement Resolution
± 0.18 °F (± 0.1°C)

Measurement Frequency
Once every 15 mins

Wireless Signal Range*
Up to 40 ft (12 m)[+]

Temperature Cable Length
12 in (30 cm) / 10 ft (3 m) /
By request: 50 ft (15.2 m)

Battery Life
Up to 4 months

Data Formats:
Export as PDF or CSV

Standards
ASTM C1074 (Approved by ACI 318, CSA A23.1, most USDOT specifications)

* Following installation depth requirements.

[+] For longer range options, contact us.

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