



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



Wire-Free & Wireless Technology



Remote Monitoring Capabilities

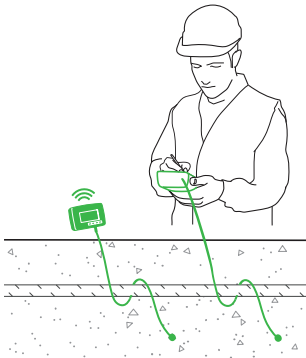


Easy Activation & Installation

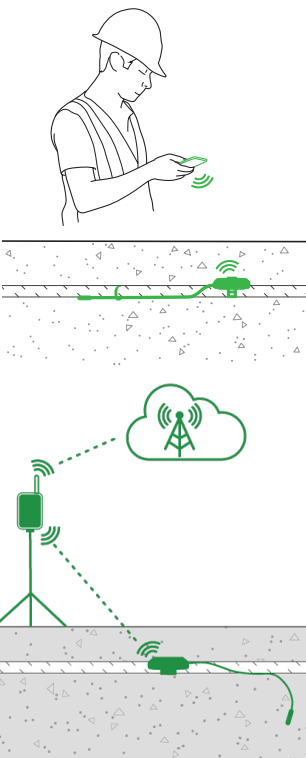


Real-Time Data Collection

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

-30 to 85 °C (-22 to +181 °F)

Measurement Accuracy

± 1°C (± 1.8 °F)

Measurement Resolution

± 0.1°C (± 0.18 °F)

Measurement Frequency

Once every 15 mins

Wireless Signal Range*

Up to 12 m (40 ft)*

Temperature Cable Length

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

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.