

Mass Concreting with SmartRock™

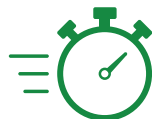
Take back control of your mass concrete pours with SmartRock™ wireless concrete sensors.



FULLY WIRELESS
TECHNOLOGY



REAL-TIME DATA
COLLECTION



EASY ACTIVATION
& INSTALLATION



REMOTE MONITORING
CAPABILITIES



EASY REPORTING &
ANALYTICS CAPABILITIES

Overview

To ensure the quality and durability of mass concrete pours, it is vital to control temperature and monitor temperature differentials between surface and core. Temperature differences can cause stress that leads to thermal cracks, as well as loss of structural integrity, thus shortening the life and decreasing the strength of the mass concrete element. If the temperature drops too low, the hydration of water can slow or stop causing the concrete to not set properly or achieve optimal strength. When concrete temperatures are properly monitored, appropriate adjustments can be made when needed.

SmartRock Delivers

SmartRock is the world's leading wireless sensor for temperature monitoring in mass concrete. 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. The sensors measure the temperature developments at regular intervals to deliver high-accuracy data and enable contractors to make appropriate decisions regarding temperature control during the curing stages of the project. With high-accuracy data collection and easy report sharing, your results and your temperature data are always accessible remotely and in real time via the free SmartRock mobile app, and the Gatec 360 dashboard.

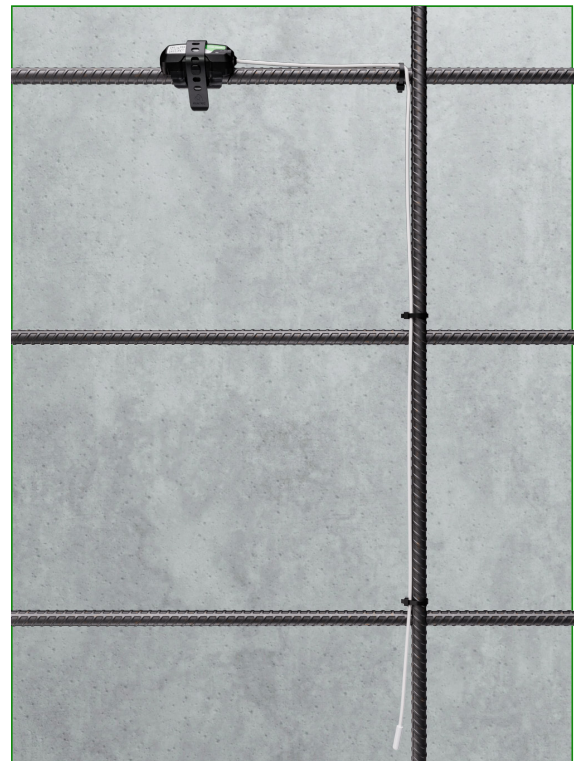
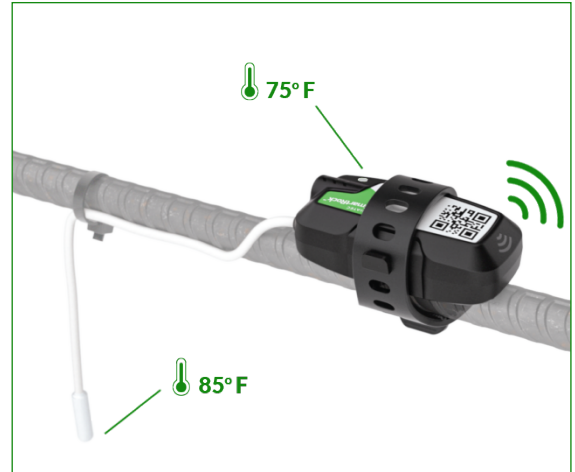
- Fully wireless technology
- Dual temperature capabilities with 2 independent temperature measurements, cable and body
- Rugged and fully waterproof, specifically designed to be embedded in concrete
- Measure temperature differentials in mass concrete with range lines
- 24/7 remote monitoring capabilities with the SmartHub™
- Assign maximum and minimum temperature limits
- Smart alerts and notifications

The wireless capabilities allow for more freedom and security by removing the risk of tripping over wires or protruding devices. Contractors also benefit from less destructive testing methods. Advances in concrete temperature monitoring technology are helping contractors and the construction industry move towards more sustainable, durable, and safe environments.

“With over 40 mass concrete placements here on the I-65/I-70 North Split Project in Downtown Indianapolis, Indiana and the strict specifications, the use of the SmartRocks, SmartHub, and Gatec system has made monitoring these placements at all hours of the day extremely easy.”

Andrew Gordon

Quality Control Engineer, Superior Construction



TRUSTED BY:



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