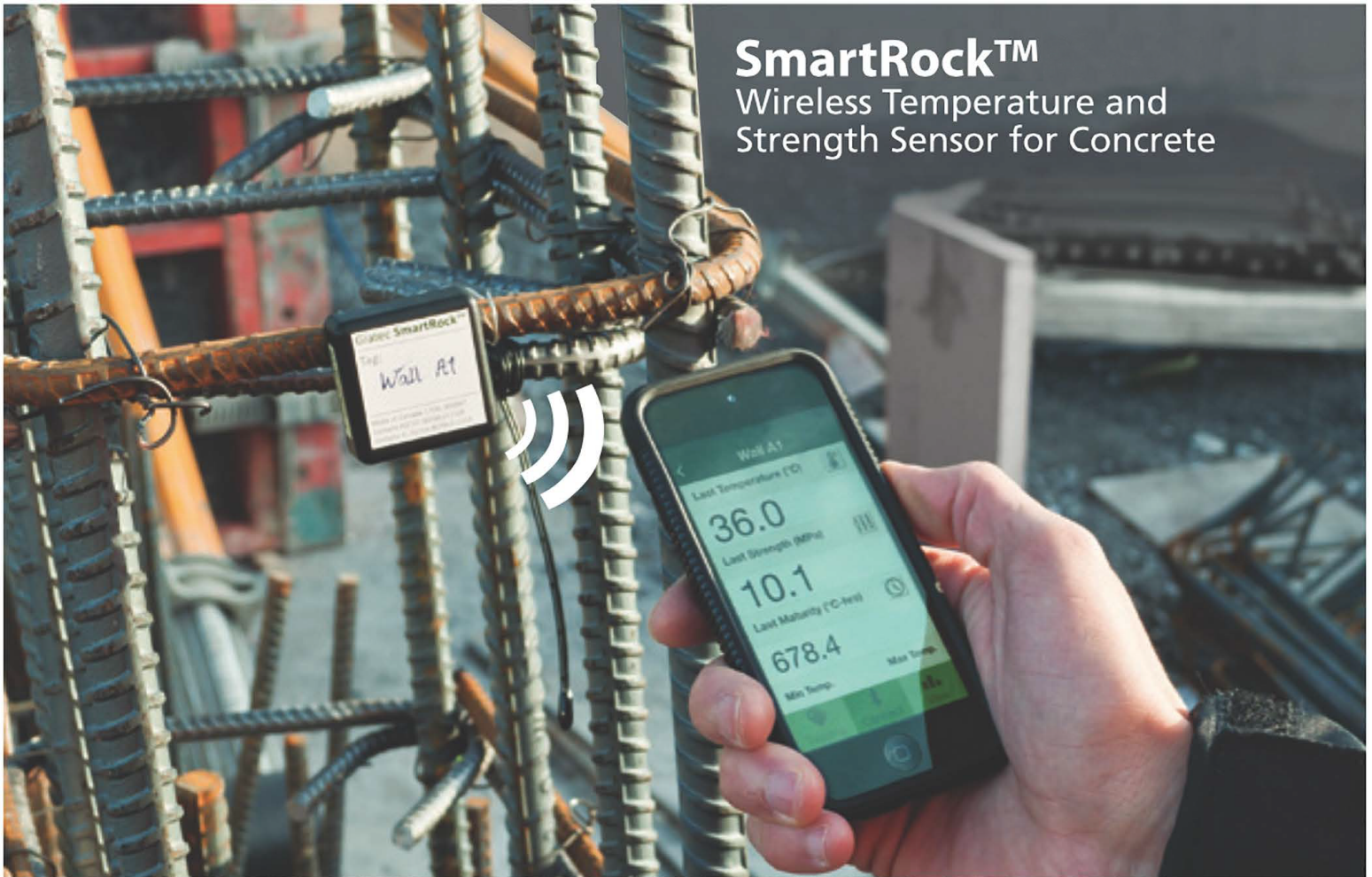


HG-4040 SmartRock™ Wireless Maturity Meter



SmartRock™
Wireless Temperature and
Strength Sensor for Concrete

SmartRock™ is a rugged mobile-based wireless sensor for monitoring the temperature of concrete from fresh to hardened stage. It also estimates concrete strength based on the maturity concept. The SmartRock™ can be placed in the concrete formwork (installed on the rebar) before pouring to monitor the temperature of concrete in situ. The continuous measurements are recorded on the SmartRock™ memory and can be downloaded any time during the concrete setting and hardening onsite using the mobile application on a smartphone or tablet device.

APPLICATIONS

SmartRock™ can be used to monitor the temperature of fresh and hardened concrete. This can provide information on:

- Hardening of concrete (formwork removal timing)
- Optimization of curing conditions
- Heating and cooling processes
- Quality control in the field
- Concrete maturity
- Estimation of strength (ASTM C1074)
- Concrete mix design optimization



HOW TO USE SMARTROCK™ IN 3 EASY STEPS

① Install Sensor



② Pour Concrete



③ Read Sensor



FEATURES

- Wireless Bluetooth technology
- Ruggedized and waterproof design
- Real-time data display (e.g. temperature, strength, max-min)
- Easy installation and activation by tying the wires together
- Extended temperature sensor cable for mass concrete
- Maturity calibration curve database
- Long battery life (about 4 months in room temperature)
- Android and iOS apps for smartphone and tablet
- Easy data sharing
- Patents pending

TECHNICAL SPECIFICATIONS

Reading Range	-30 ~ 80 °C (-22 to +176 °F)
Resolution	± 0.5 °C
Wireless Signal Range	6-8 meters in concrete* (20-26 feet)
Dimensions	38 x 38 x 12 mm (1.5 x 1.5 x 0.5 inches)