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Newly Re-Engineered Concrete Sensor
Launches with Dual-Temperature Functionality



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Giatic Scientific Inc., Ottawa, Ontario, K2H 9E8, Canada

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Giatic, a world leader in concrete testing technologies, has announced that their flagship product, SmartRock has been redesigned. The re-engineered product now has dual temperature monitoring capabilities for mass concrete applications.

SmartRock is a wireless sensor for monitoring the curing and hardening of concrete. The sensor is fully embedded and secured on the rebar, making it completely maintenance and hassle-free. Temperature data is collected, and the strength of your in-place concrete is then calculated automatically, based on the maturity method (ASTM C1074). These results are accessible in real-time and remotely through the SmartRock mobile app and on the Giatic 360™ cloud dashboard to help you make informed decisions. SmartRock's AI assistant, Roxi™, eliminates human error by sending smart notifications and alerts to give you the upmost confidence in your mix calibration data and accuracy of strength test results.

First announced in February of 2020 at World of Concrete, this latest generation of SmartRock takes concrete testing to a whole new level. In addition to an update in the sensor's design, activation, installation, and wireless signal range, 'SmartRock 3' has been equipped with dual-temperature monitoring capabilities. This enables users to measure temperature values at two locations simultaneously. One temperature probe is located at the tip of the white temperature cable, another in the body of the sensor where the black

transmitter is located. This function allows users to easily monitor temperature differentials between the concrete's core and surface for mass pour applications.

"We are very happy with the new dual temperature functionality of the SmartRock 3 sensor. The temperature readings are very precise, helping us to accurately monitor temperature differentials of our mass pours at the surface and center of the slab, which can vary based on several factors. The sensors are also fast and straight forward to install, sending real-time data to our phones immediately," says Walter Flood, Principal Engineer, Flood Testing Laboratories.

Key features of this premium SmartRock sensor include

- Wire-free and wireless technology
- Fast, simple, and hassle-free activation and installation
- Designed to withstand the harshest weather and construction conditions
- Accurate real-time data display of concrete temperature and strength
- Dual temperature monitoring for easy differential analysis
- Intuitive & easy-to-use mobile & web apps
- 24/7 remote monitoring capabilities with the SmartHub™ device
- Share sensor data with stakeholders using our cloud dashboard, Giatic 360™
- Proactive artificial intelligence, Roxi™, provides smart notifications and alerts



The sensor is fully embedded and secured on the rebar, making it completely maintenance and hassle-free.



Measurement results are accessible in real-time and remotely through the SmartRock mobile app and on the Giatec 360™ cloud dashboard to help you make informed decisions.

- Open API integration with project management applications
- Project management tools including live data sharing
- Full PDF & CSV reporting and data exporting

These features allow users to measure temperature differentials, accelerate formwork removal, control quality in the field, speed up post-tensioning, open roads to traffic faster, optimize curing conditions, and more. SmartRock has helped top construction companies build concrete structures faster, safer, and more economically in over 6,200 projects across 45 countries.

Giatec Scientific Inc. is a global company modernizing the construction industry by bringing smart testing technologies and real-time data collection to the forefront of every jobsite. Giatec's suite of hardware & software products has leveraged

advanced technologies such as; Artificial Intelligence (AI), and Internet of Things (IoT), including; wireless concrete sensors, mobile apps, and advanced non-destructive technologies (NDT) to drive innovation throughout concrete's lifecycle. ■

FURTHER INFORMATION



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