



HOSKIN

SCIENTIFIC

CONCRETE MONITORING SOLUTIONS



hoskin.ca

Supplying Testing & Monitoring Instruments Since 1946

ABOUT HOSKIN

For over seventy years, Hoskin Scientific has been a supplier of testing and monitoring instrumentation to the Canadian market. With offices in Vancouver, Edmonton, Oakville and Montréal our customers are able to receive local sales and technical support in our three major departments.

Our Environmental Department provides solutions for monitoring and sampling biological and chemical parameters in the environment. Our team of environmental sales representatives and diverse product range guarantee that you will find the right products for your application. Specific areas include: water quality, water quantity, soil moisture, plant science, weather stations, indoor air quality, aquatic sampling, and oceanography.

Our Materials Testing Department offers testing equipment for soil, asphalt, petroleum, concrete and cement. Our qualified sales associates focus on providing a sophisticated range of testing equipment complying with the various test methods, ensuring that accurate and consistent test results are always obtained.

Our Instrumentation Department focuses on a wide range of products including optical camera systems, transducers and transmitters, data acquisitions and loggers, signal conditioners and indicators, automation sensors and measurement systems. We have technical sales associates that are trained in various areas and willing to help you with your instrumentation requirements.

RENTALS

We offer high quality, proven equipment that will provide the user with valuable data as well as numerous ways of retrieving, filtering and viewing that data. We carry a wide range of instrumentation, including: water quality, portable gas monitors, soil sampling instruments and more.

Rental Equipment:

- Single and multi-parameter instruments that can be setup for spot checks or extended deployment/data logging
- Water sampling instruments
- Water velocity and stream profiling instruments
- Soil sampling instruments
- Soil vapour sampling instruments
- Portable gas monitoring instruments

Customer satisfaction is our goal and we make an effort to ensure that all our customers are satisfied with their rental. All rental instruments are cleaned and calibrated before being sent to the user (please note that we also require equipment to be returned clean). If a rental instrument requires recalibration, please return the instrument to us and we will recalibrate at no charge. Any instrument not functioning properly can be exchanged at no cost.

Hoskin Scientific offers technical support over the phone and can also provide hands on demonstrations.

We are constantly expanding and looking for new equipment to add to the rental inventory and welcome all suggestions.

Check our website www.hoskin.ca for current offerings.

Daily, weekly and monthly rental rates available – please call for a quote.

CONCRETE STRENGTH AND TEMPERATURE PROFILING SYSTEM

intelliRock III



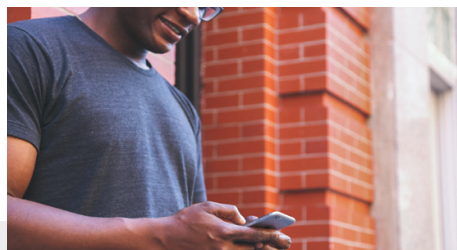
intelliRock III is the leading solution for monitoring concrete strength and temperature. This concrete decision-making system allows you to report and review critical data from anywhere via cloud-based software. It is also the only system available to retain secure, uninterrupted, and unalterable data. intelliRock III offers all of the tools you need to complete projects within budget and on schedule, including multiple mix design access, various alerts, and an infrared camera for temperature measurement and heat profiling.



COMPLETE PROJECTS FASTER AND ON TIME

Prevent delays due to concrete strength or temperature issues, and avoid penalties

- Collect, monitor, and report mass-concrete data with ease
- Set up parameters for alerts with logger comparison feature
- Ensure differentials are accurate with sliding-scale logger comparison



ACCESS DATA FROM ANYWHERE

Report and review critical concrete data via cloud-based software

- Conveniently review data from a computer with reader Bluetooth® connectivity
- Review critical data from any location via mobile device with LTE wireless communication
- Save and access data via cloud software



ENSURE CONCRETE QUALITY

Mitigate liability due to cracks and structural defects

- Prevent thermal cracking by monitoring differential temperatures and receiving timely alerts via email or smartphone when conditions warrant
- Receive reliable, valid data from start to finish, and ensure strict specifications are met
- Detect delamination, temperature gradients, temperature extremes, and more

SPECIFICATIONS

| General Logger | intelliRock III |
|--|---|
| Operating Temperature | -20°C to 99°C |
| Max Storage Time and Temperature | 85°C for 5 years |
| Max Temperature Measurement Range | -20°C to 125°C |
| Temperature Accuracy | ±1°C (-20°C to 80°C), ±2°C (80°C to 99°C) |
| Temperature Resolution | 1°C |
| Time Accuracy | 1 minute per month |
| Temperature Measurement Rate | 1 minute (resolution for min/max) |
| Maturity Integration Period | 1 minute |
| Overload Dose Rate Range (Cs-137, NaI) | 10mSv/h - 500mSv/h (1rem/h - 50rem/h) |
| Data Logging | |
| Time | Yes |
| Temperature | Yes |
| Maturity | Yes |
| Events | 6+ max and min temperature |
| Notes | 8+ job site name and logger location |
| Logger Model-Specific Info | |
| Type of Logger | Temperature Only or Maturity |
| Available Cable Lengths | 4, 8, 15, 30, 50, 100, 150, or 200 ft |
| intelliRock III Reader | |
| General Reader Operating Temperature | -5°C to 50°C |
| Time Accuracy | 1 minute per month |
| Logger Data Storage | 999 logger downloads |
| Calibration Curve | Holds 5 calibration curves for strength conversions |
| PC Interface | USB and Bluetooth® |
| Camera | 160x120 resolution thermal imager |

| Item Name | Part Number | Description |
|--|-----------------------|--|
| intelliRock III Temperature Loggers | TPL-03-1M180D | Measures and stores temperature every minute for 180 days. |
| intelliRock III Temperature and Maturity Loggers | MAT-03-1M180D | Measures and stores temperature and calculates maturity value every minute for 180 days. |
| intelliRock III Handheld Reader | | |
| intelliRock III Reader | KIT-03-Reader Kit | Handheld reader starts loggers and allows viewing of critical numeric and graphed data in the field. Includes built-in thermal imager, storage for data from thousands of loggers, and up to 999 thermal images. |
| intelliRock III Wireless Data System | | |
| intelliRock III 8 Channel Wireless Remote | IRW13-R8-1000mW | Allows connection of up to 8 intelliRock loggers and transmits their data either via 4G/LTE to cloud-based software, or via a 900 MHz radio to the PC and then to the cloud. 900 MHz radio requires the optional base station. |
| intelliRock III Base Station (optional) | IRW13-BaseStation-USB | Receives 900 MHz signal from field wireless remotes to allow transfer of data to the PC and cloud software. |

Contact a FLIR sales representative to create a custom concrete-profiling solution.



intelliRock Wireless provides instant access to critical decision-making information from your computer.



Maturity Loggers
ASTM c 1074
c 918



Temperature Loggers
ASTM c 31
c 39

Save time.
Save money.



Wireless Communication System



The right tool for diverse job sites.

Benefits

- Unalterable, uninterrupted data integrity
- Increased productivity
- Quantifiable reporting on project specifications
- Improved construction calendar management

The intelliRock system is designed to provide construction professionals with real-time information to safely and efficiently manage concrete-related activities.

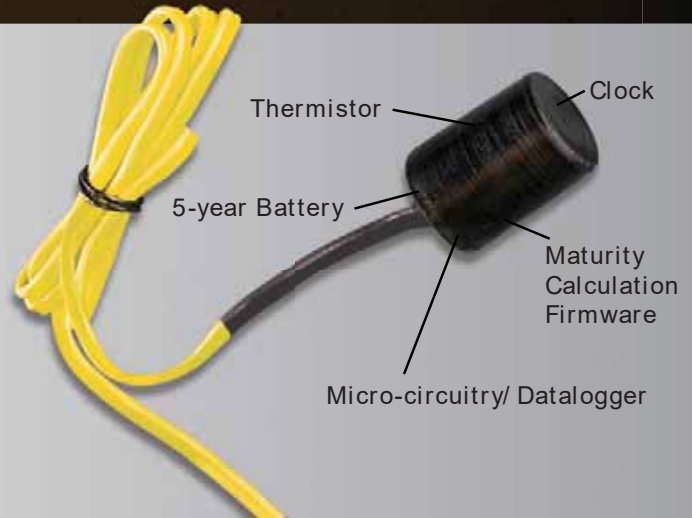
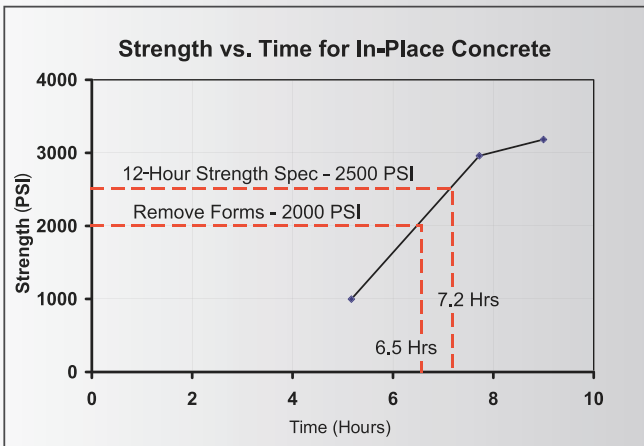


Innovative Design

The intelliRock family's solid functionality and design saves time and money on a range of construction projects. The system consists of a series of loggers (sensors) which measure and record physical properties of in-place concrete, a reader that communicates with multiple loggers and transfers information back to a PC, and software to effectively analyze and communicate job site information.

Get the job done faster, cheaper, and with confidence.

intelliRock | maturity loggers



Real-time, in-place strength readings.

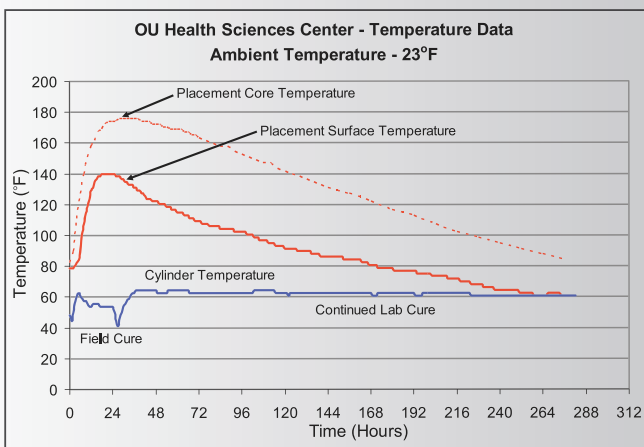
The intelliRock Maturity Logger analyzes the time and temperature profile of in-place concrete to calculate its strength in real time with the push of a button.

Benefits

- Early completion
- Increased productivity
- Decreased labor and material costs
- Early validation of batching consistency
- Reliable reporting of in-place concrete strength



intelliRock | temperature loggers



To get the job done.

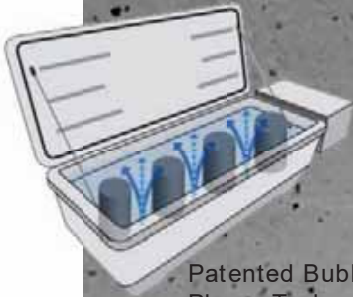
The intelliRock Temperature Logger measures and documents the temperature profiles and gradients of in-place concrete in real time.

Benefits

- Reliable temperature profiles
- Decisive reporting for mass pours
- Effective management of fuel cost in cold weather
- Expanded construction calendar into cold weather
- No external boxes to damage



intelliCURE and ezCURE



Patented Bubble Plume Technology



Rock-solid curing conditions.

intelliCure

intelliCure is the industry's ultimate curing solution. The unit heats and cools to maintain a constant (adjustable) curing temperature, for both the initial cure and the full 28-day cycle.

Benefits

- Patented "Bubble Plume" technology
- Cures cylinders & beams in water
- Adjustable thermostat
- Heats & cools as needed
- Certified accuracy vs. NIST traceable device
- Available in multiple sizes
- Ideal for extended curing and "rapid" curing

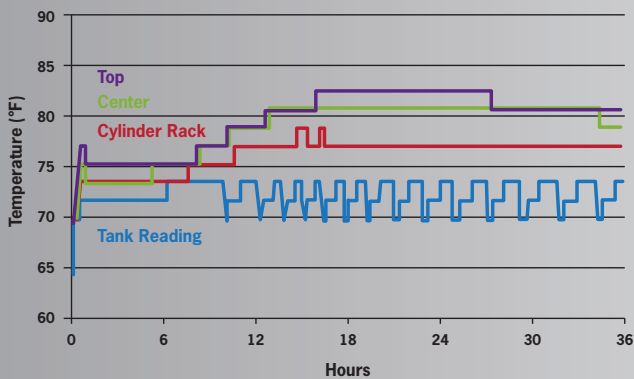
NEW! Float Switch ensures safe operation & protects your investment!



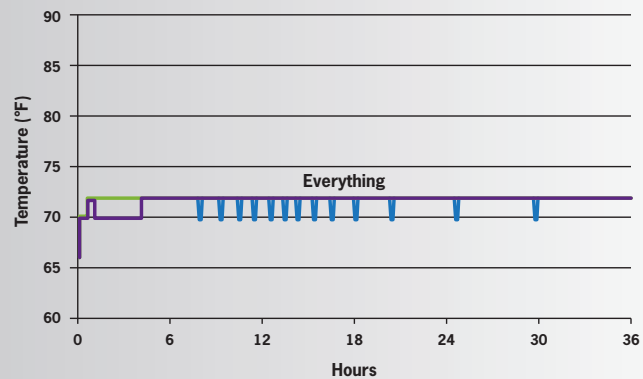
Even temperature = better curing
Bad temperature control = bad breaks

This thermal image shows the heat distribution across two cylinders. The one cured in intelliCure shows an even temperature gradient (left), while the one cured in a competitor's curing box (right) shows an extreme temperature variation along the length of the cylinder.

Competition



intelliCure



| Model | intelliCure Mini | intelliCure Standard | intelliCure Mega |
|---------------------------|--|--|--|
| Dimensions (LxWxH) Inches | 59x20x21 | 70x22x21 | 88x24x24 |
| Capacity | 11 (6x12) cylinders 26 (4x8) cylinders | 17 (6x12) cylinders 43 (4x8) cylinders | 25 (6x12) cylinders 104 (4x8) cylinders |
| Power | 110 V/60 Hz, 15 A/750 W | 110 V/60 Hz, 15 A/1500 W | 110 V/60 Hz, 15 A/1500 W |
| Interior Dimensions | 37 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 13 $\frac{3}{4}$ | 47 $\frac{1}{2}$ x 15 $\frac{1}{2}$ x 13 $\frac{3}{4}$ | 56 x 17 $\frac{1}{2}$ x 19 $\frac{1}{2}$ |

thermostatically controlled curing boxes



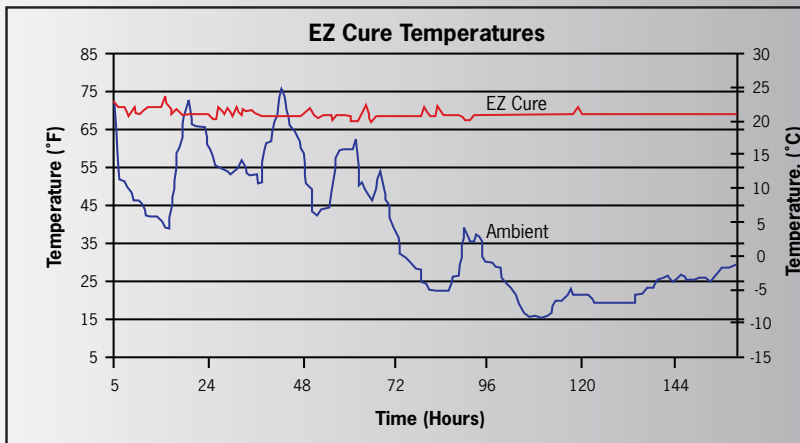
Economical, field-curing solution.

EZ Cure (early age 24 to 48 hour)

EZ Cure is an economical, thermostatically controlled curing box that heats and cools as needed to maintain a constant 73°F curing environment. The EZ Cure is designed to be a simple field curing solution while still meeting ASTM C31 curing requirements for job sites on a tight budget.

Benefits

- Affordable
- Rugged, lightweight steel construction
- Automatically maintains 73°F set-point
- Ideal for first 48 hours of curing at the job site



| | |
|---------------------------|---|
| Model | EZ Cure |
| Dimensions (LxWxH) Inches | 48x27.75x35 |
| Capacity | 15 (6x12) cylinders 35 (4x8) cylinders |
| Power | 110 V/60 Hz, 15 A/180 W |



Transmit concrete data.

intelliRock Wireless provides instant access to critical decision-making information from your computer.

Benefits

- Transmits readings directly to your computer
- Useful where safety or accessibility is an issue
- Range of up to 20 miles (with direct line of sight)
- Provides two-way communications
- Compatible with all intelliRock loggers



intelliCure Match replicates fluctuating temperature conditions in real-time during the curing process so your breaks accurately represent your concrete placements.

Benefits

- Monitors and matches concrete pour temperatures during curing
- Heats and cools water as needed to match placement temperatures
- Bubble plumes circulate water to maintain consistent temperatures
- System provides easy maintenance and heating element replacement
- Rugged YETI Box construction with solid pin hinge design for durability
- Meets AASHTO T-23, AASHTO PP 54-06, and ASTM C 31 curing environment requirements



Next Generation Concrete Cylinder Curing

| Model | intelliCure Match |
|---------------------------|--|
| Dimensions (LxWxH) Inches | 59x20x21" 70x22x21" 88x24x24" |
| Capacity | 10 to 28 6x12" cylinders, or 25 to 70 4x8" cylinders |
| Power | 110V/60Hz, 15Amp, 1500W |



The standard for concrete cylinder curing, the intelliCure family of products just got even better with the intelliCure Match curing system.

Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing
Environmental Monitoring
Test & Measurement Instrumentation

Hoskin Scientific operates out of four offices within Canada:

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