



nova

Embeddable Maturix® Sensor for Temperature and Strength Monitoring



Overview

The Nova is a powerful yet simple and easy to install sensor for monitoring temperature, maturity, and in-place strength in any concrete structure. It offers two monitoring points - one inside the body of the device and one at the end tip of the 0.5m cable.

The Nova begins measuring and storing data as soon as the cable tip is removed from the sensor body. It utilizes precise digital sensors to ensure accurate readings, which are taken every 15 minutes.

Its low power consumption and large internal storage provide over 150 days of monitoring, ensuring access to all data from the concrete pour to document the quality and conditions of the final structure.

The device's body is protected by a rubber cover, shielding it from impact and other damage during installation and concrete placement. The cover features three mounting points, enabling secure installation to the rebars.

The Nova stores all data internally, which can be retrieved using the Maturix app. This provides direct insight into temperature, maturity, and strength from the concrete pour.

Features

- Plug-n-Play functionality with an embeddable, wire-free sensor
- Free mobile app for Android and iOS
- Live data sharing with one-click to give direct insights to the team or externals
- 150 days of internal storage
- Two monitoring points - body and cable - to allow for optimal monitoring of e.g. slabs and walls.

Benefits

- Reduce concrete specimens by monitoring in-place strength
- 30-50% faster formwork removal by providing accurate insights into curing times

Maturix® Temperature and Strength Monitoring

Maturix combines innovative hardware, smart wireless technology and user-friendly software into a powerful concrete monitoring tool. The system provides in-depth insights into the curing status and shows real-time temperature, maturity and strength data.

Specifications

Temperature measurements

Sensors	2 x high-accuracy temperature sensors (body + cable)
Range	Internal sensor (body): -25 to 90 °C External sensor (cable): -45 to 120 °C
Tolerance	Internal sensor (body): ± 1 °C (1.8 °F) External sensor (cable): ± 1 °C (1.8 °F)
Resolution	0.1 °C (0.18 °F)

Data transmissions

Measurement interval	Cable inserted in body: In standby Cable removed from body: 15 minutes
Storage space	150 days
Network	Bluetooth Low Energy (BLE)
Coverage	30-50 m (open air), 5-10 cm (covered in concrete)

Use and storage

Temperature	-25 to 90 °C (-22 to 122 °F)
Humidity	0 to 100 %RH
Ideal storage conditions	Indoor, 20 to 30 °C (68 to 86 °F)

Mechanical specifications

Dimensions (L x W x H)	84mm x 64.37 x 25mm (3.3 x 2.53 x 0.98 in)
Materials	Body: PC plastic (white) Protective edge: TPU elastomer (orange)
Battery	CR2450 (Li/MnO2)
LED	1x Orange LED
IP rating	IP 67

Certifications

CE, Radio Equipment Directive (RED, RoHS)

Compatible Software

Maturix App (available through App store and Play store)

Part no:

20102-010 (box of 10 pcs)

HS Code:

8517 6990 00

