

nova split

Embeddable Maturix[®] Sensor for Temperature and Strength Monitoring



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
- 90 days of internal storage
- Three monitoring points body and two cables (1.5m and 3m)

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.

Overview

The Nova Split is a powerful yet simple and easy to install sensor for monitoring temperature, maturity, and in-place strength in any concrete structure. It offers three monitoring points - one inside the body of the device and two at the end of the cable tips 1.5m (5ft) + 3m (10 ft).

The Nova Split 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 90 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 Split 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.



/ersion: 1.5 • April 2025 • English

Information in this datasheet is based on specifications believed correct at the time of publication. The right is reserved for making changes as design and general improvements are introduced.

Specifications

Temperature measurements		Mechanical specifications	
Sensors	3 x high-accuracy temperature sensors (body + cable)	Dimensions (L x W x H)	84mm x 64.37 x 25mm (3.3 x 2.53 x 0.98 in)
Range	Internal sensor (body): -25 to 90 °C External sensor (1.5m cable): -45 to 120 °C External sensor (3m cable): -45 to 120 °C	Materials	Body: PC plastic (white) Protective edge: TPU elastomer (orange)
Tolerance	Internal sensor (body): ±1 °C (1.8 °F) External sensor (1.5m cable): ±1 °C (1.8 °F) External sensor (3m cable): ±1 °C (1.8 °F)	Battery	CR2450 (Li/MnO2)
		LED	1x Orange LED
Resolution Data transmission	0.1 °C (0.18 °F) s	IP rating	IP 67
Measurement interval	Cable inserted in body: In standby Cable removed from body: 15 minutes	Certifications	CE, Radio Equipment Directive (RED, RoHS
Storage space	90 days		
Network	Bluetooth Low Energy (BLE)	Compatible Software	Maturix App (available through App store and Play store)
Coverage	30-50 m (open air), 5-10 cm (covered in concrete)	Part no:	20103-010 (box of 10 pcs)
Use and storage		HS Code:	8517 6990 00
Temperature	-25 to 90 °C (-22 to 122 °F)		
Humidity	0 to 100 %RH		

Ideal storage conditions

Indoor, 20 to 30 $^\circ C$ (68 to 86 $^\circ F)$



Maturix[®] • Ejlskovsgade 3A, 5000 Odense, DK - Denmark • + 45 88 44 11 90 • contact@maturix.com • www.maturix.com