

TECHNICAL DATA SHEET

Maturix Smart Concrete Sensors



Maturix[®] Smart Concrete[®] Sensor

Product Code: S-301G

DESCRIPTION

Maturix[®] Smart Concrete[®] Sensors streamline thermal monitoring requirements and provide real-time strength validation based on concrete curing conditions. To do that, they automatically transmit live concrete temperature data to a user-friendly cloud-based platform, which then calculates concrete strength. It's a process that ensures real-time remote monitoring with an alert system, which reduces risk, increases efficiency, and improves quality — saving users significant time and money.



FEATURES & BENEFITS

- Real-time insight into the curing of concrete
- Reusable sensor keeps monitoring costs low
- Replaceable batteries with long battery life
- Cloud software for easy reporting and data export

PROPERTIES

<u>Temperature Measurements</u>	
Measurement Range	-200 to 1260°C (-328 to 2300 °F) ¹
Tolerances	Internal Digital Sensor: ±0.3°C ¹
Resolution	±0.1 °C (±0.18°F)
Thermocouples Supported	Type K (Ni-Cr / Ni-Al)
<u>Data Transmissions</u>	
Transmission Interval	Cable Connected: once every 15 mins. No Cable Connected: once every 6 hours. Downlink: once every week
Network	Sigfox; wireless signal range up to 3 km (1.86 mi) ²
Radio Zones	RC1, RC2
<u>Use and Storage</u>	
Operating Temperature	-30 to 50°C (-22 to 122 °F)
Operating Humidity	0 to 100% RH
<u>Mechanic Specifications</u>	
Dimensions (L x W x H)	148.3 x 113 x 50.7 mm (5.84 x 4.45 x 2 in)
Weight	560 g (19.75 oz)
Materials	Body: ASA plastic (white). Protective edge: TPU elastomer (orange)
Battery Type	4 x AA, 1.5V alkaline/lithium or 1.2V rechargeable ⁴
Socket Type	Miniature, type K, female
<u>Certifications</u>	
CE, Radio Equipment Directive (RED), RoHS	

¹ Also dependent on the type K thermocouple used.

² Depending on environment.

³ RC1 is Sigfox Ready certified with Class 0.

⁴ Alkaline batteries included.