

Gaia 220

Wireless Transmitter for Maturix® Humidity and Temperature Monitoring

Overview

Gaia 220 is a wireless transmitter for humidity and temperature measurements using the CMP5000 probe.

Install the CMP5000, connect it to the Gaia 220 and it will automatically start sending the data continuously. Gaia 220 uses Sigfox, the world's largest IoT network, which offers a longer range than WiFi and Bluetooth. The data is transmitted to the cloud through nearby Sigfox antennas or gateways.

The humidity and temperature readings are available in the web portal. The concrete drying process can be followed in real-time, and you can access the data from anywhere.

The rugged and weather-resistant Gaia 220 is designed to withstand the harsh environment at construction sites. The transmitter can be reused again and again and the CMP5000 probe can be either embedded or installed using a borehole method.



Features

- Relative humidity and temperature measurements using CMP5000 probe
- Long-range wireless communication
- Weather-resistant and rugged design
- Low power consumption for extended usage
- Replaceable and universal AA batteries
- Multiple mounting slots for easy installation
- LED status indicator

Benefits

- Real-time insight into the drying of concrete
- Remote monitoring from device with internet
- Cost-efficient relative humidity monitoring
- Cloud software for easy reporting and data export

Maturix® Humidity and Temperature Monitoring

Maturix combines durable hardware, smart wireless technology and user-friendly software to a powerful concrete monitoring tool. The system provides in-depth insights into the drying status and shows real-time relative humidity and temperature data.

Specifications

Humidity Measurements

Range	CMP5000: 0 to 100 %RH ¹
Tolerance	CMP5000: ±2 %RH
Resolution	±0.1 %RH

Temperature Measurements

Range	CMP5000: -40 to 70 °C (-40 to 158 °F)
Tolerance	CMP5000: ±0.3 °C (±0.54 °F)
Resolution	±0.1 °C (±0.18 °F)

Data Transmissions

Transmission Interval	Cable connected: Once every hour ² No cable connected: Once every 6 hours Downlink: once per week
Network	Sigfox
Radio Zones	RC1, RC2
Wireless Signal Range (using Sigfox Gateway)	Up to 3 km (1.86 mi) ³

Use and Storage

Temperature	-30 to 50 °C (-22 to 122 °F)
Humidity	0 to 100 %RH
Ideal Storage Conditions	Indoor, 20 to 30 °C (68 to 86 °F)

¹Long-term exposure to conditions outside normal humidity range (20-80% RH) may accelerate ageing. Learn more: maturix.com/drift.
²Learn more about changing the intervals: maturix.com/transmissions.
³Depending on environment. Learn more: maturix.com/sigfox.
⁴Alkaline batteries included.
⁵Expected in Q2 2021.

Mechanical Specifications

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) Rubber edge: TPU elastomer (orange)
Battery Type	4 x AA, 1.5 V alkaline/lithium or 1.2V rechargeable ⁴
LED	Multi color LED
IP Rating	IP64

Certifications CE, Radio Equipment Directive (RED), RoHS

Compatible Software Maturix® In-situ ⁵
Sensohive App
API

Part No.	Models
20220-1	Gaia 220 (Sigfox RC1)
20220-2	Gaia 220 (Sigfox RC2)

HS Code 8517 6990 00

