



PROXIGEN

CTM01 · CTM02

Setup & Technical Guide

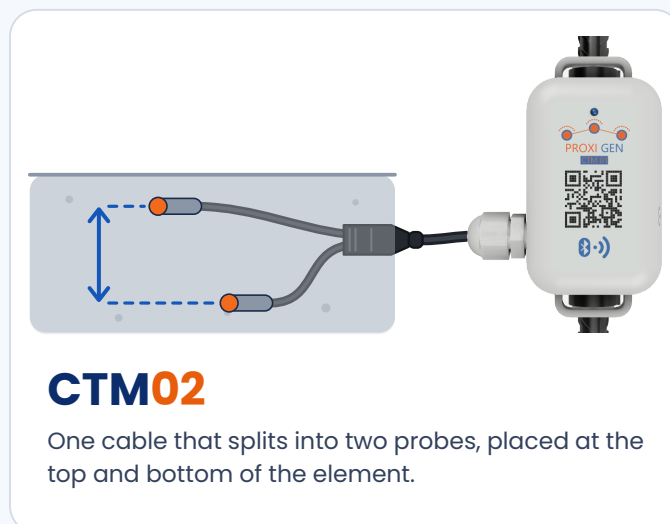
Installation, app setup and technical specifications for Proxigen concrete monitoring sensors.



ABOUT THIS GUIDE

Before you begin

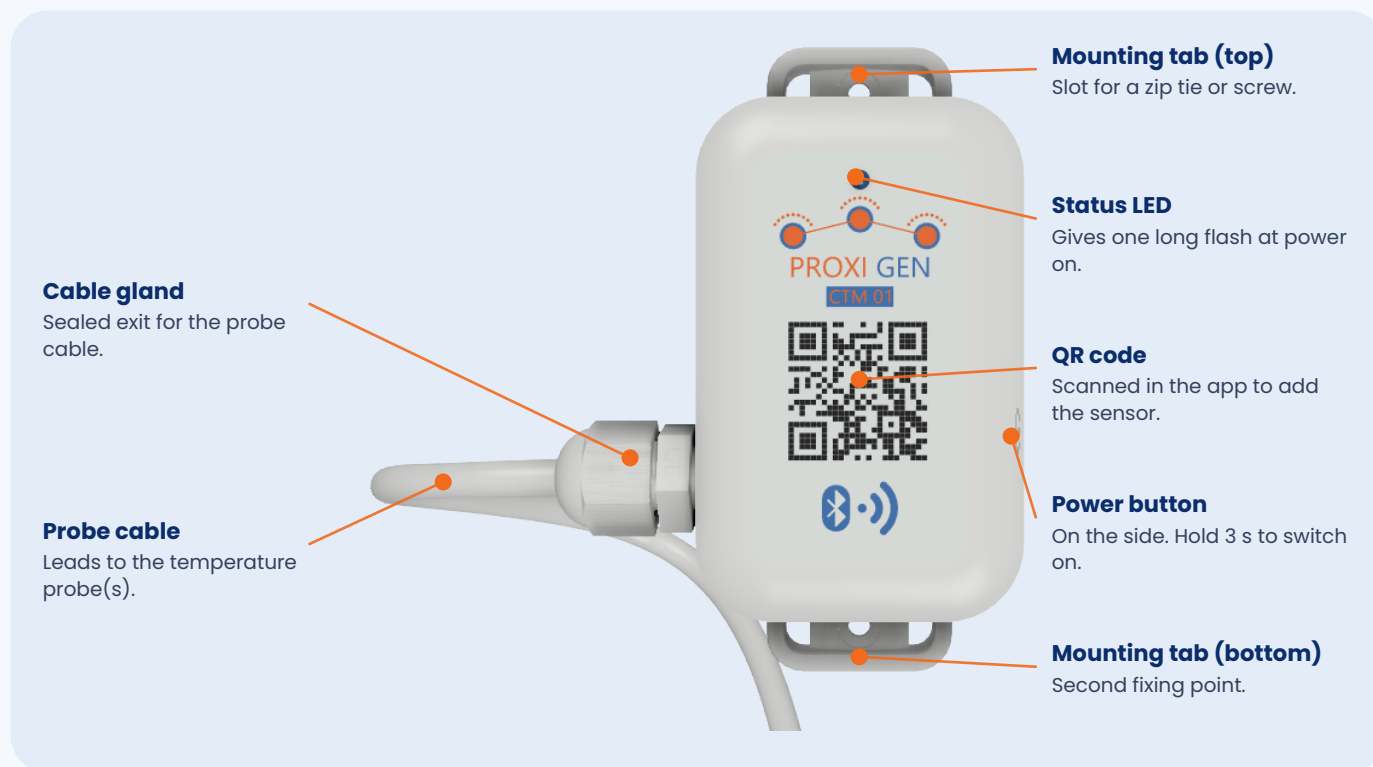
This guide covers both Proxigen concrete monitoring sensors. CTM01 and CTM02 share the same unit, app and installation; they differ only in their probes.



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Parts of the sensor unit



SENSORS

Probe sensor

Measures the temperature inside the concrete. CTM01 has one probe, CTM02 has two.

Body sensor

Built into the unit on both models and measures the temperature at the device.

MOUNTING OPTIONS



A: Cast into the concrete

Zip-tied to the rebar, max. 7.6 cm (3 in) below the surface. See page 06.



B: Mounted on the formwork

Screwed through the mounting tabs, probe in the pour. See page 07.

CTM01 and CTM02 at a glance

Parameter	CTM01	CTM02
Probes	1	2 (one cable, Y-splitter)
Probe cable length	30 cm or 3 m, custom on request	2 m + 3 m, custom on request
Probe sensor type	NTC	
Body sensor	Built-in	
Temperature range	-25 °C to +85 °C	
Accuracy	±1 °C	
Logging interval	15 minutes	
Wireless	2.4 GHz RF link to the Proxigen app	
Connection range	Stay within 5–10 m for a stable connection	
Battery life	Up to 6 months	
Enclosure	IP67, sealed for casting into concrete	
Mounting	Zip-tied to rebar (max. 7.6 cm / 3 in deep) or fixed to formwork	
Data export	Excel and PDF via the app and Proxigen Cloud	
Maturity method	Supports the maturity method per ASTM C1074	
Compliance	RoHS	

Where a value spans both columns
it applies to both CTM01 and CTM02.

Switching the sensor on



POWER ON

Hold for 3 seconds

- 1 Find the power button on the side of the unit.
- 2 Press and hold it for 3 seconds.
- 3 Release when the LED gives one long flash. The sensor is now on and logging.

LED SIGNAL



One long flash

The sensor has switched on.

Before installation

Switch the sensor on and add it in the Proxigen app (pages 08–09) before you fix it in place. You will need a smartphone with Bluetooth and Location switched on.

Good to know

Once switched on, the sensor logs every 15 minutes and runs up to 6 months on its battery.

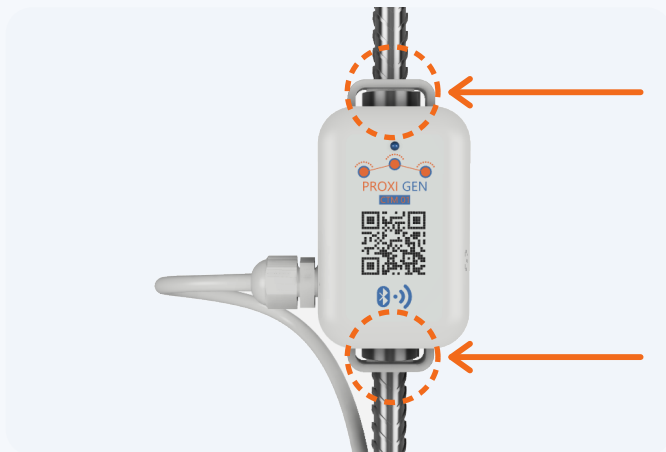
Cast into the concrete

Fix the unit directly to the reinforcement so it is cast into the pour. You need two zip ties for the unit and one small zip tie for the probe cable.



1 Select the location

Choose a clean, accessible rebar close to the top of the element, where you want to measure.



2 Zip-tie the unit to the rebar

Hold the unit beside the rebar. Thread a zip tie through the slot in one mounting tab, wrap it around the rebar and tighten firmly. Use a second zip tie on the opposite tab.



3 Position the probe

Run the probe straight without pressing on the unit. Secure the cable gently to the rebar with a small zip tie so it is stable but not strained.

Maximum depth 7.6 cm (3 in)

The unit must not be buried more than 7.6 cm (3 in) below the concrete surface, or the wireless connection to your phone may be lost.

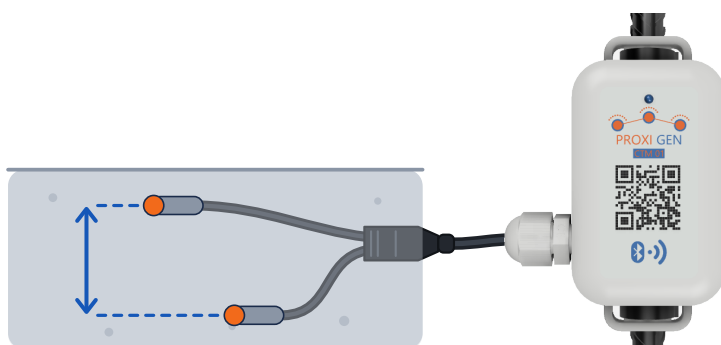
Formwork mounting and probe placement



OPTION B

Mount on the formwork

- 1 Fix the unit to the outside of the formwork with a screw through each mounting tab.
- 2 Run the probe cable into the pour and fix the probe at the measuring point.
- 3 Keep the cable clear of moving parts and of the formwork joint.



CTM02 ONLY

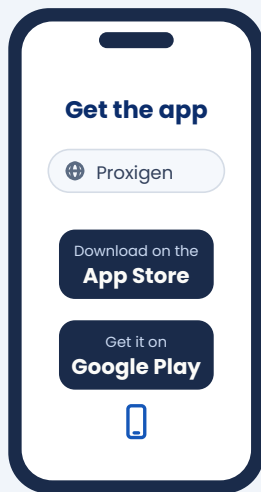
Placing two probes

- 1 Fix one probe near the top of the element and the other near the bottom.
- 2 Route both cables from the Y-splitter without pulling or kinking them.
- 3 The app then shows both readings, so you can follow the temperature difference across the element.

Then pour as normal

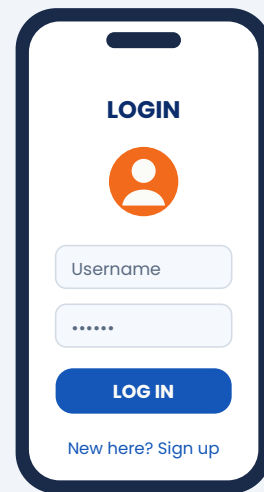
Keep the probes straight while pouring. The sensor logs every 15 minutes; open the app near the unit to sync the data.

Steps 1–4: account, project and section



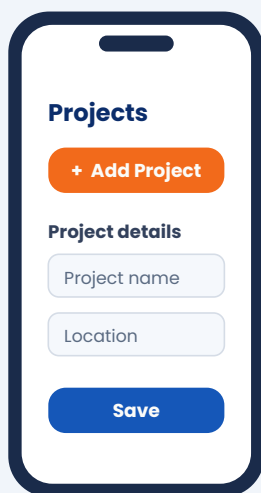
1 Get the app

Search for “Proxigen” in the App Store (iOS) or Google Play (Android) and install the app.



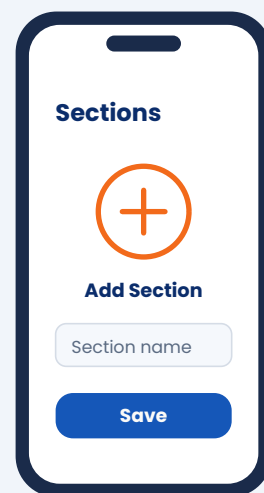
2 Log in

Open the app. Log in if you already have an account, or sign up for a new one.



3 Add a project

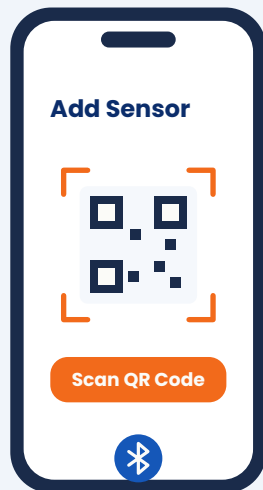
On the main screen, tap Projects, then Add Project. Fill in the required details and tap Save.



4 Add a section

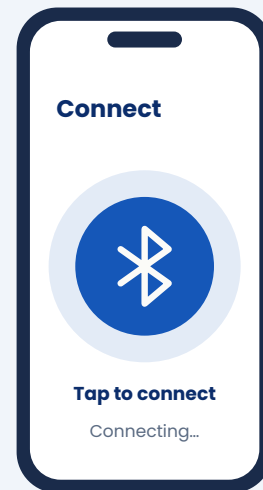
After creating the project you are taken to Sections. Tap Add Section, enter the details and save.

Steps 5–8: sensor, connection and reports



5 Add the sensor

Tap Add Sensor, select Scan QR Code and scan the QR code on the unit. Once it is registered, a Bluetooth icon appears.



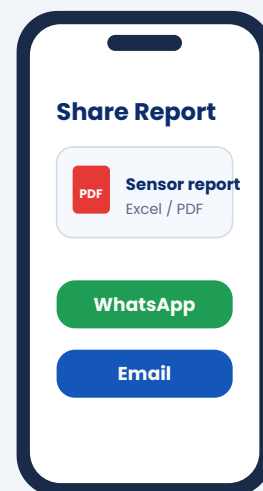
6 Connect

Tap the large Bluetooth button and wait a few seconds. Once connected, you are taken to the Statistics screen.



7 View live data

The Statistics screen shows live temperature from the probe(s) and the body sensor. Tap Download for Excel or PDF reports.

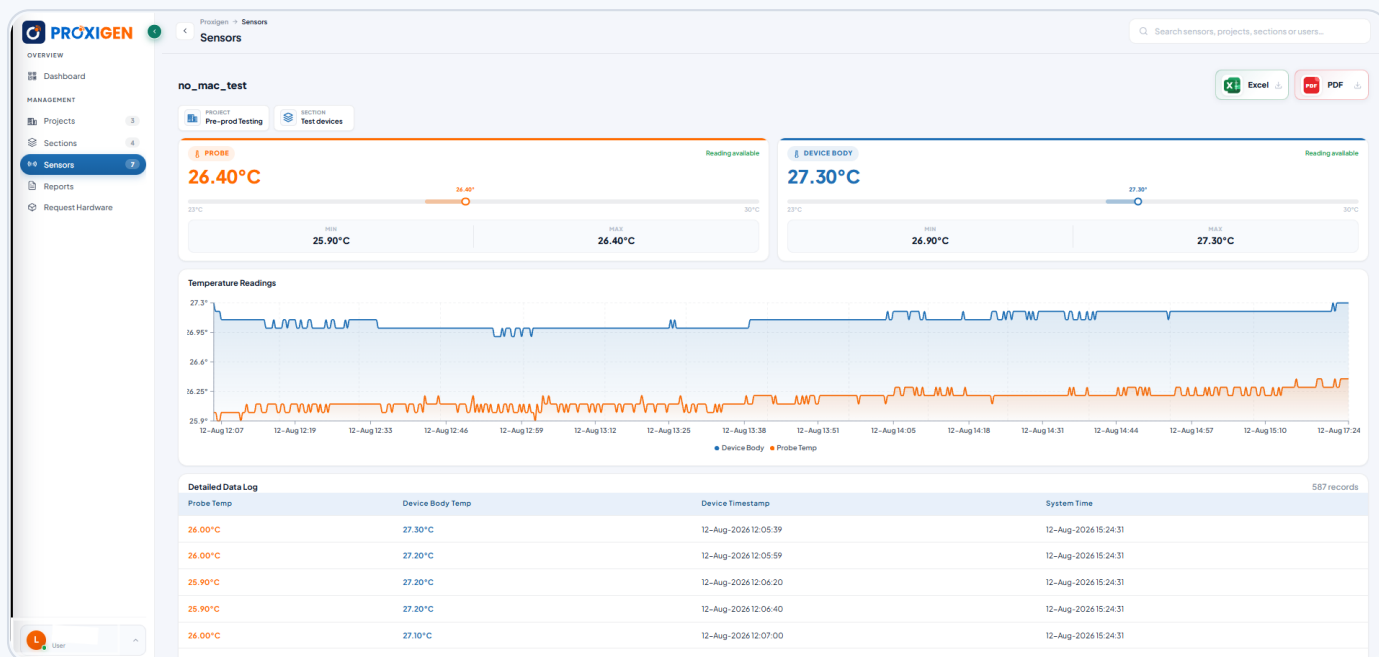


8 Share reports

Open the downloaded report on your phone, or share it straight away via WhatsApp or email.

Proxigen Cloud dashboard

Your data is also available in the Proxigen Cloud dashboard in a web browser, with an overview of projects, sections, sensors and reports, Excel and PDF downloads, and a form to request more hardware.



TROUBLESHOOTING

The app does not find the sensor

Check that Bluetooth and Location are on, stay within 5–10 m of the unit and make sure the sensor is switched on (hold the button 3 s; the LED gives one long flash).

The connection drops

Move closer to the unit. If it is cast in, check it is no deeper than 7.6 cm (3 in) below the surface.

No new readings

Open the app near the unit and connect to sync. The sensor logs every 15 minutes.

Need help?

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