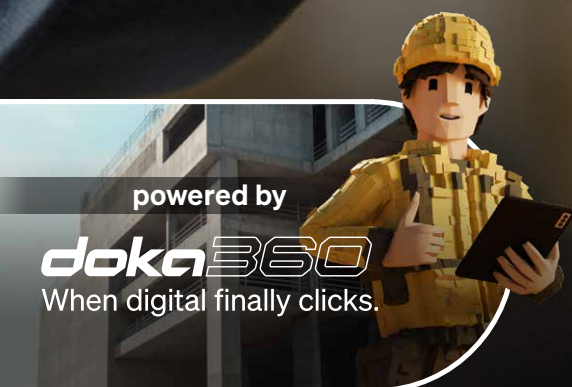




Concremote

Optimising your construction.
Every time.



Formwork & Scaffolding.
We make it work.

Concremote concrete monitoring

Concremote uses **sensors to measure the temperature and calculates compressive strength** of the concrete structure. Think construction processes forward and boost your productivity.

A **selection of sensors** suitable for the different challenges of all types of projects in combination with a **powerful software solution** serve as an **ideal basis for decisions** on the construction site. Our **native app and web portal** provide real-time data and extensive functions.

Save time

- Implement shorter cycle times with certainty through measurement, avoiding traditional approaches and incremental test cubes.
- Optimise construction time, especially when using CO₂-reduced concrete mixes
- Save time with real-time data, automatic notifications, and digital documentation

Increase safety

- Higher safety in decision-making thanks to reliable data from the concrete structure
- Hard data for compliance conforming quality and strength thresholds
- Critical activities only with sufficient concrete strength
- Safe repositioning of the formwork in winter working conditions

Enhance concrete quality

- Required curing time is measured for quality assurance
- Temperature monitoring in order to avoid cracks
- Support for achieving uniform fair-faced concrete colour tones

Reduce costs

- Optimal use of material and personnel due to planned cycle times
- Validated concrete quality for reduced concrete finishing costs (e.g. crack repair)
- Savings by optimisation of the concrete mixes
- No traditional testing cubes for early concrete strength needed

Fields of application



Temperature monitoring in mass concrete



Monitoring of early-age compressive strength



Fair-faced concrete projects

Concremote sensors

Concremote digital sensors continuously measure temperature and transmit data wireless via 2G, 3G, 4G, or Bluetooth BLE. The concrete's strength gain is then calculated in the Concremote cloud, and the data can be accessed via web portal or native app.

Slab



The **slab sensor 2.0** combines the sensing element and wireless transmitting unit in one device. It is placed on top of the concrete and can be fully reused.

Fields of application:

- CIP concrete slab
- Cut-and-cover tunnel
- Bridge

Wall



The **wall sensing unit** can be installed in any formwork and the **cable sensor 2.0** transmits the data wirelessly to the cloud.

Fields of application:

- Wall and column formwork
- Climbing projects
- Bridge and tunnel building sites
- Mass concrete structures
- Fair-faced concrete projects

Mass concrete



The **multi-sensor cable** accurately measures the temperature inside the concrete and the **cable sensor 2.0** transmits the data wirelessly to the cloud.

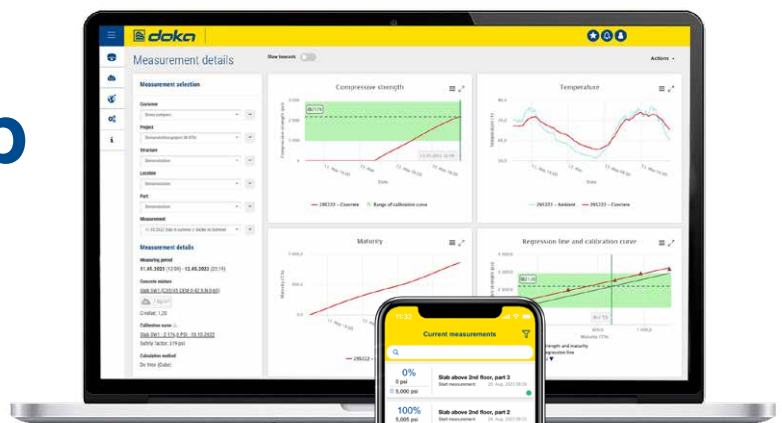
Tip:

up to 6 measuring points per multi-sensor cable

Concremote app & web portal

Advantages:

- With the **Scenario Comparison** feature different concrete mixes can be compared, which allows us to choose the most economic and sustainable mix for upcoming casting steps.
- Reliable information is available on any device in **real time**.
- **Push notifications** inform the user when the concrete reaches the target strength or exceeds temperature limits.
- The **Forecast feature** allows to predict compressive strength development and therefore enables a better planning of upcoming tasks.
- All measurement results are logged, providing **hard data (reports)** to support decisions in executing critical path activities (stripping, post-tensioning, climbing, curing) at the earliest possible time.



Get the
Concremote
app on your
device



iOS



Android

The need for more sustainable concrete mixes

Society has a strong demand for a more sustainable approach of the concrete industry as such. This development is forcing the industry to reinvent itself and implement global changes in materials, cement types, concrete mixes and construction methods.

To successfully replace traditional approaches with alternatives, the industry must overcome certain challenges such as lower early age strength-performance, cost pressure, uncertainty, and still find the optimised concrete mix for specific requirements.



Optimising concrete mixes for lower CO₂-emissions

Concrete Calibration:

Equipment, software and support help in determining and optimising the early age properties of CO₂-reduced concrete mixes.



Increasing productivity on the jobsite with CO₂-reduced concrete mixes

Concremote Monitoring:

Sensors and software help monitoring the early age strength development of CO₂-reduced concrete mixes on jobsites or in precast factories.



Success story

L76 Schlossgalerie Landeck Landeck | Austria

- **Time savings:** Ensured stripping time of **16 hours**
- **Cost reduction:** Cost savings of **35,000 EUR** due to concrete optimisation
- **Reduction of the carbon footprint:** Total savings of **330 tons** of cement

➔ **16 hours**
35,000 EUR
330 tons of cement

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