

Projects supported by ALMEMO® measuring technology

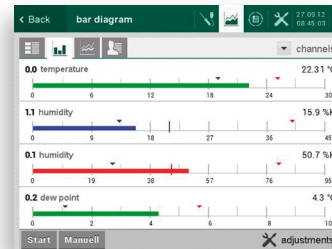
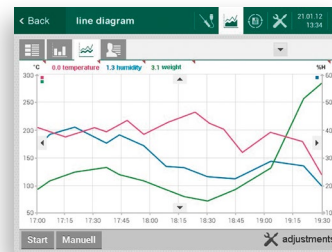
- Albrechtsburg castle Meissen
- Monument of the fraternity Eisenach
- Fraunhofer center for energetic restoration of old buildings and preservation of historical monuments Benediktbeuern
- Old Masters painting gallery Zwinger Dresden
- Henneberg chapel Veßra monastery
- Cave of Lascaux, France
- Cave of Skozjan, Slovenia
- Church of St. John, Saalfeld
- Monastery of St. Marienstern Panschwitz
- Monastery of St. Marienthal Ostritz
- Monastery church Doberlug Kirchhain
- St. Mary's church Rostock
- Market church Bad Langensalza Nonnenempore
- St. Michael's Church Hildesheim
- Nicolai church Luckau and other churches in the state of Brandenburg
- Nicolai church Meißen
- Sanssouci Potsdam orangery
- Peace church, Fredersdorfzimmer
- Monument of the battle of nations Leipzig
- Albrechtsberg castle Dresden
- Moritzburg castle
- Pillnitz castle
- Berlin castle bridge
- Versailles castle, France
- St. Mary's church Bergen/Rügen
- City bridge Pirna
- City castle Sondershausen
- Wartburg castle Eisenach
- Magic castle Schönfeld



Record and process measured values

The measuring device with data logger function ALMEMO® 710 is the perfect solution for simple or complex measuring tasks, in the museums, in the preservation of historical monuments and in the renovation of old buildings (for example, indoor and outdoor climate monitoring).

The device is easy to operate via touch screen. The measurement data can be clearly displayed and stored on the device. Only one measuring device is required for all sensors and applications. Existing sensors can be connected via an ALMEMO® universal connector.



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measuring
 preserving
 restoring

Measurement
 technology in
 monument protection

Measurement technology in museums, monument preservation, restoration and renovation of old buildings

With the help of the ALMEMO® system from Ahlborn, important physical parameters such as room temperature, room humidity, surface temperature, material humidity, heat flow, O₂ and CO₂ content of the air, microclimate at boundary layers, crack and joint movements, weather data including global radiation, but also visitor numbers and periodic events such as heating cycles or door opening times can be recorded and evaluated over long periods of time.

The measurement signals are often also used to control heating and ventilation systems, for climate stabilization in rooms with wall and ceiling paintings or valuable frescoes before and after conservation treatment.

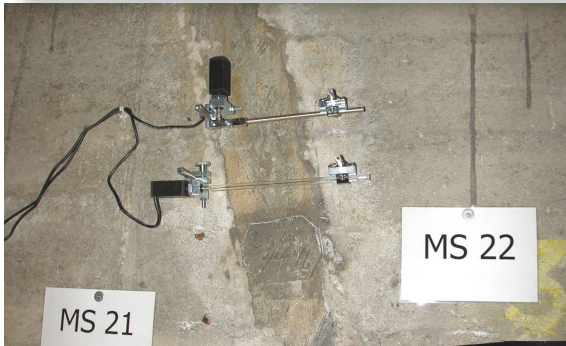
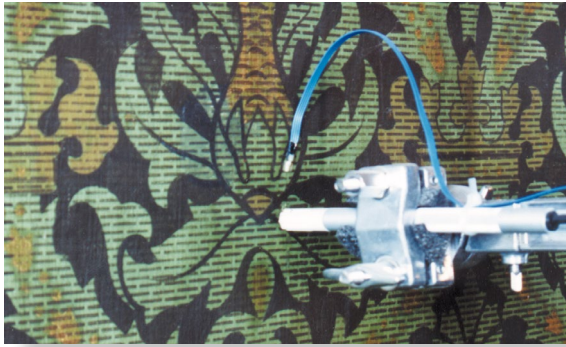
The possibility of networking individual devices provides a high degree of flexibility with regard to the distribution of measuring points in different rooms.

The measuring devices can be connected by wire via the ALMEMO® network, via Ethernet, dLAN or wirelessly via WLAN or Bluetooth. Wireless sensor connections are available for inaccessible measurement locations.

The measured values can be stored on site but also transmitted directly to a remote PC using the possibilities of modern data communication via GPRS modem or DSL connections.

The WIN Control software has been developed for the acquisition and processing of measured data. It also enables convenient programming and operation of the ALMEMO® measuring instruments.

The acquired measured values can be displayed, mathematically processed, stored, printed and exported to other programs for further processing (also online). Alarm states can be derived from the recorded or calculated variables and controls can be carried out.



Wall painting at the Albrechtsburg castle in Meissen

Boundary layer moisture, boundary layer temperature and the temperature of the surface are determined. The measurement data is forwarded wirelessly from the device to a measuring computer and stored there. The measured values can thus be centrally controlled and evaluated.

Castle bridge in Berlin

Climate documentation of the annual cycle on the marble figures of the castle bridge in the center of Berlin. Surface temperatures and the microclimate are measured via humidity sensors. The data are retrieved wirelessly from the car.

Monument of the battle of nations in Leipzig

Measurement of the climatic height profile inside the monument and measurement of the joint movements at the foundations with monitoring of the crack width changes.

Partner of the Fraunhofer center

The company AHLBORN is partner of the Fraunhofer center for energetic renovation of old buildings and preservation of historical monuments in Benediktbeuern and contributes to the research in the field of preservation of historical monuments and energetic retrofitting of existing buildings. The research projects, among others on wall heating as well as interior and exterior insulation, are supported by the ALMEMO® measurement technology in the online measurement data visualization and evaluation.