

## Digital Climate Measuring System KL-200

### Criteria

The measuring system KL-200 unites two application areas for the building expert, which are different by a different sensor equipment.

#### Masonry humidity measuring

If in buildings a masonry drying is carried out, you can check the effectiveness by supervision with the help of the KL-200.

To this are to set defined test drills, where are to install so called lost climate sensors. In defined time intervals the KL-200 can connect with this sensors, and the measuring value can complete with a user and a sensor code, which is also stored in the KL-200. With the help of the enclosed PC program the data in the KL-200 can transfer to the PC, where a comfortable archival is possible.

#### Long time climate measuring in buildings

The second application consults experts, which have to make long time measurements in apartments, archives, factory buildings etc. The KL-200 is a tool for measuring and storage the temperature and humidity with a digital plug-on-sensor (KS-11) and a digital sensor with a 5 m cable (KS-10). Therefore the KL-200 has got 4 channels for climate measuring. The visualization and storage of the measuring values is possible with the help of a PC. The recorded climate history shows the expert, whether mold formations are possible, and he can then start a necessary ventilation or desiccation in the building.

### KL - 200



### Technical data

Measuring range humidity: 0...100 % relative  
Precision  $\pm 2\%$  (at 10...90 % r.H.)

Measuring range temperature: -40...60 °C  
Precision  $\pm 0,5$  K (at 5...40 °C)

Controller board: ZILA-15  
Display: LCD, 2 lines with 16 characters  
Keyboard: Matrix, 16 keys  
Power supply: 9V Lithium-Battery  
Data transmission: Via cable  
Climate sensor 1: KS-11 (plug-on-sensor)  
Climate sensor 2: KS-10 (Cable-sensor)  
3,5"-disk: With PC-program

### Operating conditions

Temperature : -10°C - +60°C  
Relative humidity : 0 - 85 % not condensed  
Protection grade : IP-51  
CE-conformity : EN50082-1/2

### Applications

Measuring of the climate in the masonry with "lost" sensors  
Long time climate measuring in buildings, apartments, archives, factory buildings, etc.

We reserve the right to make technical modifications

Information

## Functions

The measure system KL-200 unites the following functions:

### **Version 1: Masonry humidity measuring:**

Scan of at most 300 "lost" climate sensors and storage of the climate data  
Operator identification by means of personal number, 4-digit  
Measuring place identification by means of group number (3-digit) and place number (2-digit)  
Trend display on the spot (the previous measurement remains stored in the device)

### **Version 2: Hand-held climate displaying device:**

Precise climate display device with a plug-on-sensor and / or a cable sensor (2 temperature and 2 humidity channels). Displaying of air temperature and relative humidity. Update of the measurements every second.

### **Version 3: Long time climate measuring:**

Climate measuring with a plug-on-sensor and / or a cable sensor (2 temperature and 2 humidity channels) in time grid free eligible.  
Time grid between 1 and 300 minutes adjustable. The measurements are stored inclusive the date and time.  
Max. measuring times if two sensors are used:

Time grid 1 min:	50 hours
Time grid 5 min:	10 days
Time grid 30 min:	62 days

### **PC data transmission for version 1 and 3:**

The KL-200 will connected to the PC with the enclosed cable. A serial interface (COM) is used.  
The enclosed software "ZILA PC-communicator" generates a measurement file in the ASCII format. This file can be imported into a table calculation software (e.g. EXCEL) to the further processing of the measurement data.

## Scope of supply

Measuring case with hand-held device KL-200, program disk "ZILA PC-communicator", PC cable, KS10 with 5 m of cables (cable sensor), KS11 (plug-on-sensor), operation instructions, plug power supply

On enquiry's also custom-designed configurations possible.

**Order name:**  
KL-200