

Minimum – Thermometer

Instruction for use 2.0446.00.901

Model / Technical Data

Order-No.	2.0446.00.901
Measuring range	: - 30 ... + 50 °C
Accuracy	: ± 0,2 K
Graduation	: 0,5 °C
Model	leaning on DIN 58653
Dimension	: Ø 19 x 350 mm



Direction for use

The minimum thermometer is designed for the measurement of the air temperature in the field of meteorology. The lowest air temperature is read from the alcohol-filled capillary within a certain period. The minimum device consists of an index (dark glass pin), situated below the moistening liquid. In case of falling temperature the index is drawn back through the surface tension of the liquid meniscus, and remains on the minimum temperature value with up-going temperature.

Before starting the measurement the thermometer is turned down so that the protective cover cap is situated on the lower end, and the index (dark glass pen) runs forwards in the capillary liquid to the meniscus. Only just now the thermometer is totally ready for use.

For the measurement please put the meteorological minimum-thermometer in horizontal position.

Separated liquid columns – what do you do ?

Before using a liquid-in-glass-thermometer, make sure that the liquid column is not interrupted, and that there is no liquid-deposit in the security chamber of the capillary. Violent shocks during the transport (or long-term use) can lead to these interruptions of the liquid column. They can be put right as follows:

1. By application of hard, short centrifugal movements (as done with clinical thermometers)
2. By tapping against the inside of the hand, holding the thermometer in a vertical position (fork downwards)
3. By tapping the top of the thermometer against the other hand or finger, holding the instrument in a lateral position.

Methods 2 and 3 can be used also in case the liquid is deposited in the top of the security chamber of the capillary. The liquid runs into the lower part of the security chamber by application of tap movements. A careful warming of the liquid receptacle makes the liquid column rising up to the security chamber (Attention: do not overheat the receptacle!), and rejoining it with the liquid tapped back.

After this, it is very important to make the thermometer cool down in a vertical position, and to leave it there for at least 10 minutes.

Thermometers with moistening liquid should absolutely be stored in a vertical or slightly lateral position.

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