

INSTRUCTION FOR USE

General:

Hygrometers serve to measure the relative air humidity. The concept "relative humidity" means that the air depending of the temperature prevailing at the time, i. e. in relation to it, may receive resp. contain different quantities of humidity. If the air temperature drops at unchanged water content of the air then the "relative humidity" rises, and conversely. Temperature and air humidity exert great influence on the physical wellbeing. Therefore these two parameters should be given special notice in dwelling and working rooms.

The Synthetic Hair Hygrometer is for that very reason a precision instrument. Contrary to the spiral hygrometer, which theoretically indicates only correctly at a certain point of the scale, the synthetic hair hygrometer can be adjusted in such a way that it indicates reliably over the total scale range due to its construction.

Putting into service:

To enable an exact function of the device, the choice of the measuring place is of particular importance. When measuring in the open air, the device must be put on a spot protected from solar radiation and wind. The device should be placed in dwelling and working rooms at a spot with steady temperature and free from the influence of any heaters.

Our synthetic hair hygrometers are produced and adjusted with the utmost care.

Shocks during transport or longer storing in dry rooms may in a particular case cause alterations in the sensitive measuring part and influence the indicating accuracy. This may also occur after longer use in heated rooms with extremely dry air.

A regeneration of the hygrometer is to be recommended in both cases. This happens by wrapping the device in a wet towel for about 1/2 hour. After this time the hygrometer must indicate a relative humidity of max. 95 - 98 %. Deviations can be corrected by turning the adjusting screw with a small screw driver. **The adjusting screw** is visible through a small hole in the back of the housing.

A SIMPLE REGENERATION is possible by storing the device several hours in wet atmosphere for instance in bath rooms, wash-houses or in the open air on humid foggy days. Should you want to control the synthetic hair hygrometer in comparison with other devices then it is essential that all devices are put at the same place closely together. It should be noticed that considerable variations of the air humidity are being possible at different measuring points within closed rooms.

Thermometer with capillary

Sometimes the liquid in the glass tube (capillary) will have become split or separated during transport. It is possible to force the liquid together again by shaking the thermometer strongly in a downward direction.

Thermometer with needle

The thermometer has already been adjusted in the factory. Should you wish to check the thermometer, place it next to a well-calibrated instrument for half an hour. Any correction can then be made using a screwdriver at the rear of the thermometer.

Hygrometer

The hygrometer indicates the atmospheric humidity in %. In order that the device continues to work reliably in the long term, we recommend that it be regenerated regularly, at least once a year. To do this, wrap the instrument in a moist piece of cloth for 30 minutes. The hygrometer should then indicate 94-96 %. If this is not so, the instrument can be readjusted at the rear by using a screwdriver.