RANGE OF **PRODUCTION**

Recording instruments for temperature, relative humidity and atmospheric pressure Thermometers, Dipshaft thermometers Hygrometers, Dipshaft hygrometers Polymeter Test Hygrometers Climatemeters Contact-Thermometers Contact-Hygrometers Relavs Hygrostats, Dipshaft hygrostats Special controlling instruments for indoor swimming pools and saunas Aw-Value Analyzer Bezard-Compasses Barometers, Precicion barometers Weather Rain Gauges **Automatic Weather Stations Data Acquisition Systems**

INSTRUCTIONS **FOR USE**

Hygrometers Climate Meters Sauna Hygrometers Sauna **Climatemeters**

CERTIFIED **DIN EN ISO 9001** NR 70100 F 222 CERTIFICADO



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To some hygrometers, especially the smaller models.it may now and again occur that the readings differ from the actual value due to shock and rough handling during transportation. Also when using the hygrometer over a long period of time, the measuring element can alter, causing divergences in indication. Very often it is

thereby only a matter of degeneration of the element which can easily be corrected by regeneration with saturated humidity, requiring no further adjustments . Hygrometers with Durotherm elements hardly need to be regenerated.

Testing a hygrometer at room conditions:

if the indications of hygrometers, which are placed in the same room, differ from each other it does not necessarily mean that they are faulty. On the contrary,



it is very well possible that various moisture conditions exist in one and the same room. Above all it is important that all instruments, including the control instrument, are placed close together, and away from any radiators or other heating units. The test should only run when all instruments have adapted to the ambient air humidity. As test instrument for checking hygrometers, hygrostats and hygrographs use for most qualified TEST HYGROMETER SET NO. 5804.It is easy to handle and delivers highly accurate results. First this instrument has to be calibrated with any of the saturated solutions which come with it. Remove the sensorhead of the test hygrometer and put a piece of special paper into the container. Saturate this paper with the solution required (i.e. barium chloride for 90% r.h., natron chloride for 76% r.h., natron bichromate for 55% r.h. and magnesium chloride 34%), using the solution next to the actual conditions in the field, and lock the sensorhead air tight to the container. Leave the instrument in the styrofoam package during this whole procedure since it eliminates variations of temperature. When calibrating the TEST HYGROMETER in air channels be sure to place the instrument parallel to the air stream. An approximate control of a hygrometer can also be made by wrapping a wet line cloth tightly around the lateral slots of the instrument and to seal any openings on the back of the instrument with Scotch tape. After 30 to 40 minutes the indication on the dial should read 95% r.h. If your instrument differs, make the necessary adjustment by turning the adjusting screw inside the larger lateral slot unit the pointer reads 95% r.h. On smaller models the adjusting screw is accessible from the back of the instrument. Remove the cloth and let your instrument set for another 30 minutes and it will then indicate the actual relative humidity of the room.

Reading:

The relative humidity can be read off by the hygrometer, and the temperature as well as the relative humidity by the Sauna Climatemeter.

Mounting & Maintenance:

Mount the instrument on the wall above the uppermost bench at a distance of the stove opposite to stove and door. The added distance pieces prevent the direct influence of temperature and humidity of the wall to the instrument.Keep away sprinkle water from case when cleaning the sauna.We recommend to check several times a year.

The relative humidity can be found out by means of a dry and a wet thermometer and equilibrium tables. Eventually the values shoud be corrected in non-heated rooms to prevent influences by perspirationof the operator's hand.

Here are the values of optimal comfort:

70°C about 15% r.h. (extreme point 20% r.h.) 80°C about 10% r.h. (extreme point 13% r.h.) 90°C about 6% r.h. (extreme point 9% r.h.) 100°C about 4% r.h. (extreme point 6% r.h.) The values of relative humidity can slightly

deflect up or down.

Sauna **Hygrometer**



Sauna Climatmeter

