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Fischer 146.01

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Model: 146.01

INTRODUCTION

Thank you for choosing the Fischer 146.01 Indoor Climate Thermohygrometer. This precision instrument is designed to accurately measure both relative humidity and ambient temperature, helping you maintain an optimal indoor climate. Crafted with high-quality materials and traditional German manufacturing, this device offers reliable performance and an elegant design.



Figure 1: Front view of the Fischer 146.01 Indoor Climate Thermohygrometer, showing the dual scales for humidity and temperature.

The Fischer 146.01 features a durable stainless steel casing and a clear, easy-to-read dial with two distinct scales. The integrated needles indicate the current humidity and temperature, highlighting the optimal zone for a comfortable and healthy indoor environment. Its synthetic hygrometer fiber is specially treated for temperature resistance and requires no maintenance within its operational range.

SETUP AND INSTALLATION

The Fischer 146.01 Thermohygrometer is designed for wall mounting and does not require batteries for operation.

- Unpacking:** Carefully remove the device from its packaging. Inspect for any signs of damage.
- Location Selection:** Choose a suitable indoor location for mounting. Avoid direct sunlight, drafts, or proximity to heat sources (e.g., radiators, air conditioning vents) as these can affect measurement accuracy. The ideal location is on an interior wall, away from windows and doors.
- Wall Mounting:** The device features a keyhole slot on its back for easy wall mounting.



Figure 2: Back view of the thermohygrometer, illustrating the wall mounting keyhole and adjustment screw.

- Mark the desired mounting spot on the wall.
 - Drill a pilot hole suitable for a screw (not included).
 - Insert a wall plug (if necessary for your wall type).
 - Insert a screw, leaving a small portion protruding from the wall.
 - Align the keyhole slot on the back of the thermohygrometer with the screw head and slide the device down to secure it.
4. **Initial Calibration (Hygrometer):** For optimal accuracy, it is recommended to perform an initial calibration of the hygrometer.
- Wrap the device in a damp cloth for approximately 30-60 minutes.
 - After this period, the humidity needle should indicate around 95% relative humidity.
 - If the reading is not 95%, use a small screwdriver to carefully adjust the calibration screw located on the back of the device (visible in Figure 2) until the needle points to 95%.
 - Allow the device to acclimatize to its mounted location for a few hours before taking readings.

OPERATING INSTRUCTIONS

The Fischer 146.01 is a passive instrument that continuously displays current temperature and humidity. No active operation is required after installation.



Figure 3: Close-up view of the dial, highlighting the temperature and humidity scales and the "Optimum" zone.

- **Reading Temperature:** The temperature scale is typically marked in degrees Celsius (°C) and ranges from -10 °C to 40 °C. Read the value indicated by the temperature needle.
- **Reading Humidity:** The humidity scale is marked in percentage relative humidity (% RH) and ranges from 20% to 100%. Read the value indicated by the humidity needle.
- **Optimal Climate Zone:** The dial features a shaded area labeled "Optimum". When both needles point within this zone, it indicates an ideal balance of temperature and humidity for human comfort and health, and for preventing issues like mold growth or excessively dry air.
- **Interpreting Readings:**
 - **High Humidity:** If humidity is consistently above the optimal range (e.g., above 60-70%), consider increasing ventilation or using a dehumidifier to prevent mold and mildew.
 - **Low Humidity:** If humidity is consistently below the optimal range (e.g., below 30-40%), consider using a humidifier to improve air quality and comfort.
 - **Temperature:** Adjust heating or cooling systems based on the temperature reading to maintain your desired comfort level.

MAINTENANCE

The Fischer 146.01 Thermohygrometer is designed to be largely maintenance-free due to its robust construction and the specially treated synthetic fiber of the hygrometer.

- **Cleaning:** To clean the casing and dial, gently wipe with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or the instrument's components.
- **Recalibration:** If you suspect the humidity readings are inaccurate over time, you can recalibrate the hygrometer using the damp cloth method described in the "Setup and Installation" section. The temperature sensor is factory-calibrated and generally does not require user adjustment.
- **Storage:** If storing the device for an extended period, keep it in a dry place at room temperature, away from extreme conditions.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Humidity Reading	Hygrometer out of calibration; device not acclimatized; external factors (drafts, heat sources).	Perform recalibration using the damp cloth method. Ensure the device is placed in a stable environment away from direct influences. Allow several hours for acclimatization.
Inaccurate Temperature Reading	Device not acclimatized; external factors (direct sunlight, heat sources, drafts).	Ensure the device is placed in a stable environment away from direct influences. Allow several hours for acclimatization. Temperature sensor is factory-calibrated and not user-adjustable.
Needles are stuck or not moving	Physical obstruction; internal damage.	Gently tap the device to see if the needles free up. If the problem persists, contact customer support. Do not attempt to open the device.

SPECIFICATIONS

- **Model Number:** 146.01
- **Brand:** Fischer
- **Dimensions (L x W x H):** 30 x 13 x 30 cm (approx. 11.8 x 5.1 x 11.8 inches)
- **Item Weight:** 188 Grams (approx. 0.41 lbs)
- **Color:** Stainless Steel
- **Mounting Type:** Wall Mount
- **Humidity Operating Range:** 20% to 100% Relative Humidity
- **Temperature Operating Range:** -10 °C to 40 °C
- **Humidity Accuracy:** +/- 3% Relative Humidity (within 20-100% range)
- **Temperature Accuracy:** +/- 1 °C (within ambient temperatures)
- **Hygrometer Type:** Synthetic Fiber
- **Power Source:** No batteries required
- **Manufacturer:** Fischer
- **Country of Origin:** Germany

WARRANTY INFORMATION

Fischer instruments are known for their quality and durability. Specific warranty terms may vary by region and retailer. Please retain your proof of purchase. For detailed warranty information, refer to the documentation provided with your purchase or contact the retailer where the product was acquired.

CUSTOMER SUPPORT

Should you encounter any issues or have questions regarding your Fischer 146.01 Thermohygrometer that are not covered in this manual, please contact your retailer or the manufacturer directly.

- **Manufacturer:** Fischer
- **Website:** www.fischer-barometer.de (General manufacturer website, may vary by region)
- **Seller:** Feingerätebau K. Fischer GmbH (as per product data)

When contacting support, please have your model number (146.01) and proof of purchase readily available.

