

TQC THERMO HYGROMETER

RV2100

MANUAL

1 SAFETY PRECAUTIONS

- Not suitable to be put in the sun or in the high light
- Avoid using it in over-high or over-low temperature environment
- Avoid humidity

2 PRODUCT DESCRIPTION

The TQC Thermo hygrometer is a simple hand-held digital thermo/hygrometer. Temperature and air humidity are displayed simultaneously. Equipped with MIN/MAX memory, C°/F° selection, HOLD function and dewpoint indication.

The TQC Thermo hygrometer operates 10.000(!) hours on 3 batteries type AAA and switches itself off after 10 minutes.

2.1 Specifications

	temperature	Rel. humidity
range	-20 to 50 / 70 °C	0 to 100 % rh
resolution	0.1°C/°F	0.1%rh
accuracy	±1.5 °C	±5 % (33 to 75 % rh)
sensor type	silicone bandgap	capacitance polymer
battery	3 x 1.5 volt AAA	
battery lifetime	minimum of 5 years (10000 hours)	
display	12mm LCD	
dimensions	25 x 56 x 128mm	
weight	130 gram / 160 gram	

ATTENTION HUMIDITY SENSOR The Humidity Sensors housed in these products are susceptible to contamination from pollutants such as solvents and exposure to saturated air and therefore are not covered under the 2 year warranty. Furthermore it is expected that the sensor's readings will drift by up to 0.5% per year.

3 STANDARDS

There are no standards applicable.

4 WHAT'S IN THE BOX?

The TQC Thermo hygrometer comes in a soft pouch with manual and batteries.

5 PREPARATIONS

- To obtain accurate humidity measurements, allow the instrument to stabilise in the environment for a minimum of one minute. To maximise accuracy, allow airflow across the sensor.



- The unit can be switched between °C and °K by pressing the MODE button for three seconds.
- Press the MODE button to change the bottom display between temperature and dew point measurements.

6 PERFORM A MEASUREMENT

1. The display shows two values. The upper value is the relative humidity, the value below is either the temperature or the dewpoint.
2. Press the HOLD button to freeze the display and stop measurements. Press again to continue measuring.
3. Press the MAX/MIN button to display the values. The instrument retains the MAX/MIN values when switched off. To reset press the MAX/MIN button for three seconds.

Please note

- The instrument is equipped with Backlight. Press the HOLD button for two seconds to activate it. If "Lo bat" is displayed the backlight will not operate.
- The instrument will switch off automatically after 10 minutes. To disable auto off press the HOLD button whilst switching on the instrument.
- Do not submerge the sensor in water or any other fluid. The sensor is only suitable for air measurements.
- Do not blow in the sensor or squeeze it.
- Keep the sensor out of direct sunlight and do not touch the humidity sensor.

7 ERROR MESSAGES

'Err' will appear in the display if:

- Communication with the sensor has failed
- The sensor is contaminated or wet
- The instrument has developed a fault.

8 BATTERY REPLACEMENT

The instrument will display 'Lo Bat' to warn that the batteries will need changing soon. The instrument continues to measure accurately but after further usage the instrument will display 'flat bat' and shutdown. Replace the batteries with three AAA batteries located under the rear cover that is held in place by a single screw.

9 MAINTENANCE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

10 DISCLAIMER

The right of technical modifications is reserved.

The information given in this manual is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this manual without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this manual or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this manual is liable to modification from time to time in the light of experience and our policy of continuous product development.