



A cost-optimized, precise hand-held instrument for **measuring the relative humidity and temperature** in rooms and ventilation systems. The large, backlit liquid crystal display permits optimal readout of the measurements at all times.

The optimal handheld instrument for the service technician, for those installing climate control systems, and for process control. It is also well-suited to quality control applications in the foodstuff, pharmaceutical chemical, engineering and electronic industries.

Relative humidity	:	0...95% rh	<i>non-condensing</i>
Temperature	:	-20...50°C	<i>Sensor & measurement range</i>
		0...50°C	<i>Electronics, power & display</i>
Accuracy	:	+/- 2% rh	<i>5...90% rh</i>
		+/- 0.3°C	<i>0...40°C</i>
Measurement hysteresis:	:	approx. 1...1.5%rh (capacitive measurement cell)	
Resolution	:	0.1°C / 0.1% rh	
Communication	:	Large area LC display with LED back-lighting <u>No</u> digital/analog interfaces	
Display functions	:	Min / Max value storage, average computation Measurement value storage - Hold . Time and Date functions, AutoOff function Temperature display °C - °F Humidity display with Mollier Diagram computation functions : <ul style="list-style-type: none"> • <i>Relative humidity</i> in % rh • <i>Dewpoint temperature</i> in °C und °F • <i>Mixing proportion</i> in g/m3 	



Mobile measurements of air temperature and humidity

Economical, fast, flexible, robust

Who does not instantly want to know how hot, cold and humid it is? The new Hygromate measurement instrument satisfies these wishes in almost any place in the simplest way. It is a professional instrument for daily use, incorporating well-proven capacitive humidity measurement technology. The HygroMate is a perfect addition to Novasina's palette of hand-held instruments. A worse precision at a more attractive price is adequate for many environmental applications, but this is not the case in industrial production processes, where our Novasina **ms-1** product is still the industrial leader.

The innovative **Thumbwheel** sets new standards of user-friendliness. This complements the ergonomic, anti-slip dual-colour case design and the additional sensor-protecting filter system. The instrument can be checked at any time and, if necessary, calibrated at one or two values using the well-known **Novasina SC-Check** salt standards.

The new low-power processor technology with integrated climate computer and **Auto OFF** functions guarantees a long battery life. The display is switchable from **International** to **US units**. Further functions, **Dewpoint** and **Water Content** in g/m3 help the expert to make the correct on-the-spot decisions.

Typical HygroMate applications:

- Heating, ventilation and air conditioning: monitoring und service
- Space checks in warehouses, libraries, food storage areas
- Air measurements in buildings (offices, auditoria, lecture halls, auditoria)
- Pharmaceutical production, chemical, biological and foodstuff processing

Measurement instrument ms1:

Dimensions	:	145x85x37mm
Weight	:	ca. 400 g
Power	:	4 x 1.5V alkaline batteries

Humidity measurement:

Capacitive humidity measurement cell	
Range	: 0...95% rh <i>noncondensing</i>
Precision	: +/- 2.0%rh 5...90% rh
Measurement hysteresis:	~ 1...1.5% rh
Speed	: T90 < 10 sec.

Temperature measurement:

Precise NTC resistance	
Range	: -20...50°C
Precision	: +/- 0.3°C (0...40°C)
otherwise	: +/- 0.5°C

Attention: The electronics, power and display should only be used in the temperature range 0...50°C .

Sensor Checks SC:

Humidity standards based on saturated salt solutions in plastic cylinders with a moisture permeable membrane.
Values: 11%, 33%, 53%, 75%, 90% rh

A "CH" adapter (reducing ring) is required for use of the SC Checks.