

Mobile measurement
for professionals



novasina
The Art of Precision Measurement

HygroMate

Battery powered humidity and temperature handheld measurement device for the precise measurement of climate parameters

General Information

As a leading manufacturer of precision humidity and temperature measurement devices we are pleased to present our new mobile handheld device, the **HygroMate**.

This new handheld instrument complements our other proven **ms-1** high-end handheld device and has been developed for general applications in the field of climate monitoring. This battery-powered device offers an ergonomic design and a clearly readable display with backlight function. The device can be operated by a practical thumb-wheel, which makes it easy to use with one hand.

The rel. humidity and temp. measurement is performed by a capacitive respectively NTC sensor cell that is protected from dust particles by a metal web filter.

The device is powered by 4 alkaline manganese LR6 AA primary batteries, typically giving up to 500 hours of use.

If humidity measurement checks or calibration is required, this can be easily performed using our proven SC salt check sets. Other accessories include both a hard and soft carrying case, a wall/table mounting kit and a wide range of protection filters.

Main advantages

- Best price-performance ratio
- Highest quality
- Long battery life
- Large, clear readable LC display
- Integrated climate parameter calculator
 - Temperature [$^{\circ}\text{C}/^{\circ}\text{F}$]
 - % rH, Dew point [$^{\circ}\text{C}/^{\circ}\text{F}$]
 - Mixing ratio [g/m³]
- Innovative one hand operation with a practical thumb-wheel
- HOLD / MAX / MIN and AVG function
- 1 point temperature calibration
- 1 or 2 points humidity calibration
- Date and time function
- Automatic switch-off function

Applications

- Monitoring and controlling of climate conditions in following fields :
- HVAC installations
 - Start-up and after sales service work
 - Office buildings and room monitoring
 - Museums and libraries
 - Warehouses and production facilities
 - Meteorological, greenhouse, tunnel monitoring
 - Monitoring of production processes in the pharmaceutical, chemical, textile and semiconductor industries
 - Offshore applications



Technical Data and Specifications

Type	HygroMate	
Novasina article no.	111 8903	
Temperature measurement		
Measurement range of the sensors	-20.....+50°C / -4.....+122°F	
Operating temperature <i>(limited by display and battery requirements)</i>	0.....+50°C / 32.....+122°F	
Temperature accuracy	+/- 0.3°K / [0.....+40°C], otherwise +/-0.5°K	
Humidity measurement		
Rel. humidity measurement range	0.....95% RH	[not condensing]
Dew point measurement range	-50...+50°C / -58.....+122°F	[not condensing]
Mixing ratio measurement range	0.....83 g/m3	[not condensing]
Relative humidity accuracy	+/- 2.0% RH [5.....90% RH / 0.....40°C]	
Reproducibility % RH	ca. 1.0....1.5% RH	
Response time % RH T-90	< 10 sec.	
Display, Power supply		
Base resolution of the display	0.1°K / 0.1% RH	
Analogue-, digital outputs	None	
Power supply	4 x 1.5V DC type LR 6 AA	[primary batteries] [battery power only]
Power consumption	Switched-OFF	approx. 50 uA
	Switched-ON	approx. 3.5 mA
	ON with backlight	approx. 15 mA
Protection	IP 20	

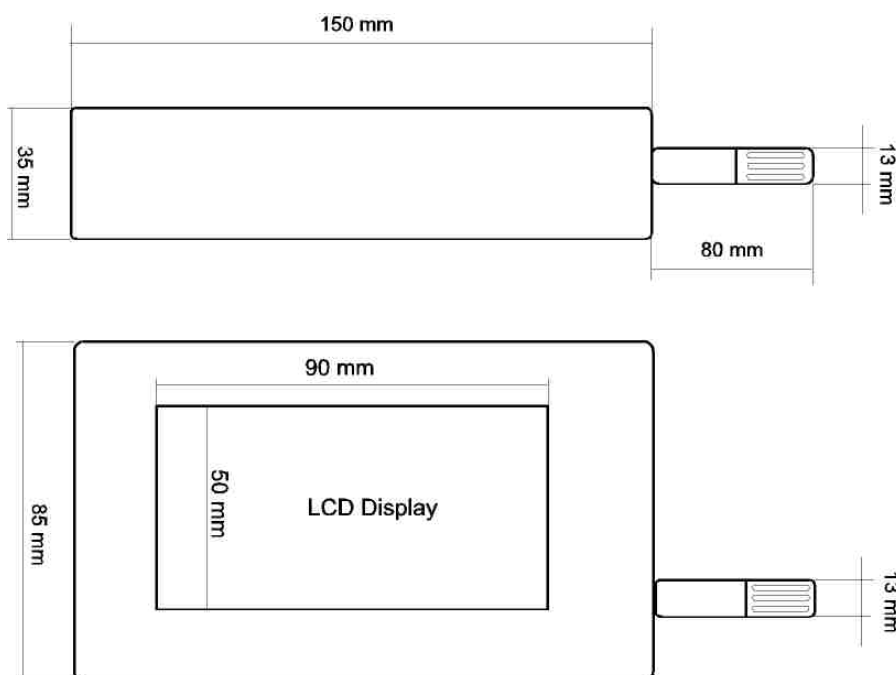


Accessories

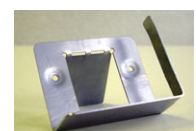
	Article-No.
HygroMate softbag with shoulder strap and trouser belt clip	111 8957
HygroMate hard plastic carrying case	111 8958
HygroMate wall and table mounting support	111 8929
HygroMate steel sinter-filter	111 8959
Novasina SC - Check 11% RH	111 0885
Novasina SC - Check 33% RH	111 0855
Novasina SC - Check 53% RH	111 0857
Novasina SC - Check 75% RH	111 0859
Novasina SC - Check 90% RH	111 0896



Art. No. : 111 8957



Art. No. : 111 8959 / 111 8960



Art. No. : 111 8929



SC-Check standards