

Get the climate  
any time  
under control



**Delivery Includes :**

- HygroGuard 20 with LCDisplay or HygroGuard 10 without LCDisplay
- Rel. humidity and temp. measuring cell
- 3,6 V Lithium battery
- Operating and installation manual
- Data transmission cable RS-232 (2m)
- Standard Data analysing and visualisation software Smartgraph 2
- Wall mounting support
- Robust carton packaging

**novasina**  
The Art of Precision Measurement

# HygroGuard

*Electronical data logger system for professional logging of climate data*

**General Information**

The new air humidity and temperature data logger **HygroGuard** is the modern version of the good old mechanical Thermo-Hygrograph.

This new instrument has the characteristic of continuous, autonomous measurement and storage of important climate parameters over a long period of time. As a leading manufacturer of high precision measurement systems, Novasina has now increased it's range of versatile high quality products and is pleased to introduce this new data logger product series.

Climate parameters such as temperature and relative humidity play an important role in many industrial and HVAC processes as well as in storage applications. Therefore they have to be measured and controlled

permanently. With the new HygroGuard the climate stability and therefore the resulting product quality can be guaranteed and later proven without any doubt. These smart, robust and handy instruments can be located at any place or mounted on a wall. They measure and store autonomously as per your configuration, the climate parameters.

The data can be later transferred onto a PC using the integrated digital interface (RS-232) and the data transfer cable as well as the visualisation software that are always supplied with the instruments.

Other useful functions assure a complete and detailed documentation of the climate parameters, if necessary over many years.

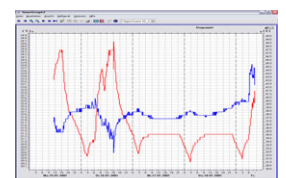
**Advantages**

- Outstanding cost efficiency
- Analysis/visualisation software and data transmission cable included in scope of del.
- High performance 120'000 readings memory
- Big, clear readable display (HygroGuard 20)
- Long lasting battery lifetime up to 2 years
- Configurable Interval steps + alarm functions
- Min. / Max. / Average memory functions
- Digital interface (RS 232)
- Possibility of adjustment
- Configurable Ring- or Start/Stop operation
- Date and Time functions

**Applications**

Monitoring and controlling of climate parameters in following applications:

- Warehouses
- Archives, Museums and libraries
- Greenhouses, tunnels
- Transportation (Railway, ships, trucks)
- Production processes in the Pharmaceutical-, Chemical- and Semi-conductor-Industries
- Textile industries as well as painting installations
- Hospitals, sport centres



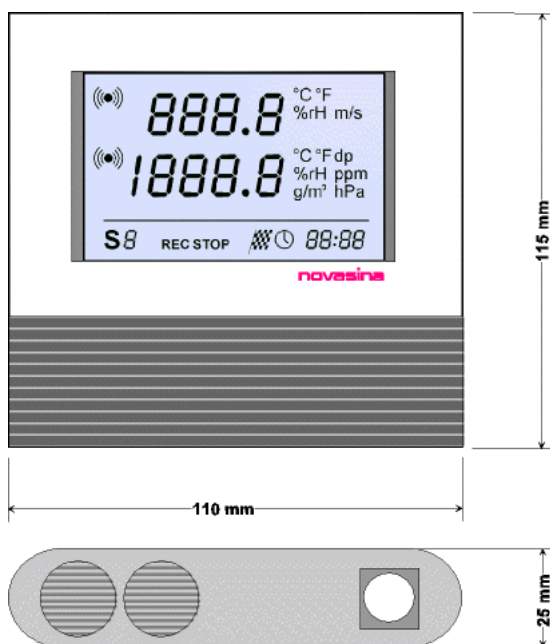
## Technical data and specifications

Type	HygroGuard 10	HygroGuard 20
Novasina article no.	<b>111 93 57</b>	<b>111 93 58</b>
Dimensions	54 x 110 x 25 mm	115 x 110 x 25 mm
Data logging intervals	1/10/30/60 s 1/10/30/60 min 1/3/6/12/24 h	
Storage values	Temperature and rel. humidity Min / Max / AVG	
Analogue-, digital outputs	none	none
Power supply	exclusively 1 x 3.6V DC [Lithium battery] Type: LS 14500 (Saft)	
Battery lifetime	typical 2 years	
Data memory	120'000 readings	
Weight	ca. 100 g	ca. 250 g
Alarm signal / Display	2 x LED	LCDisplay
Protection	no IP protection possible	
<b>Temperature Measurement</b>		
Measurement range	-20.....+50°C	
Measurement principle	NTC element	
Accuracy	+/- 0.3°K [0....+40°C], otherwise +/-0.5°K	
Resolution (Display-memory)	0.1°C	
<b>Relative humidity Measurement</b>		
Measurement range	10.....95% RH [not condensing]	
Measurement principle	capacitive	
Accuracy	+/- 3.0% RH [10 .... 90% RH / 0....40°C]	
Resolution (Display-memory)	0.1% RH	
Reproducibility %RH	ca. 1.0....1.5% RH	

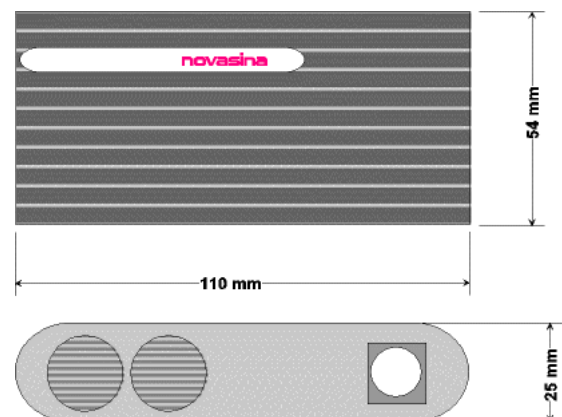


### Accessories + Spare parts

Lithium battery as spare part	<b>111 9392</b>
Anti-theft padlock	<b>111 9410</b>
Data transmission cable RS-232 as spare part	<b>111 9416</b>
Analysing/visualisation SW Smartgraph 2 full version 1 (1 license)	<b>111 9412</b>
Analysing/visualisation SW Smartgraph 2 full version 2 (10 licenses)	<b>111 9413</b>
Analysing/visualisation SW Smartgraph 2 full version 3 (100 licences)	<b>111 9414</b>
Sensor spare part module RHT	<b>111 9411</b>
USB to RS-232 interface cable for PC/Laptop	<b>111 9415</b>



**HygroGuard 20**



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