

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.

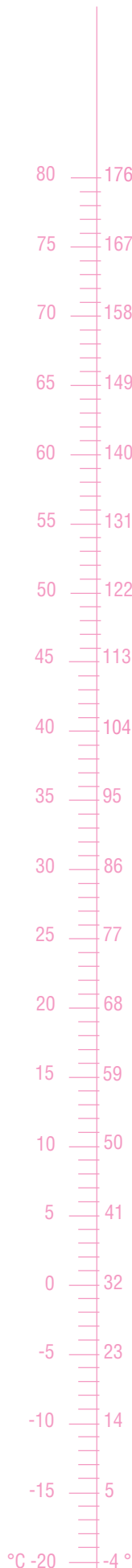
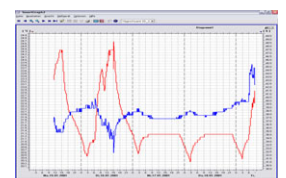
Advantages

- 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



Data transmission cable RS-232 as spare part 111 9412
 Analysing/visualisation SW Smartgraph 2 full version 1 (1 license) 111 9412
 Analysing/visualisation SW Smartgraph 2 full version 2 (10 licenses) 111 9413
 Analysing/visualisation SW Smartgraph 2 full version 3 (100 licences) 111 9414
 Sensor spare part module RHT 111 9411
 USB to RS-232 interface cable for PC/Laptop 111 9415

Type	HygroGuard 10	HygroGuard 20
Novasina article no.	111 93 57	111 93 58
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	
Temperature Measurement		
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	
Relative humidity Measurement		
Measurement range	10.....95% RH [not condensing]	
Measurement principle	capacitive	HygroGuard 10
Accuracy	+/- 3.0% RH [10 90% RH / 0....40°C]	
Resolution (Display-memory)	0.1% RH	
Reproducibility %RH	ca. 1.0....1.5% RH	

