



*General Catalogue AIR*

**2015**

**Air humidity and  
temperature  
measurement instruments**

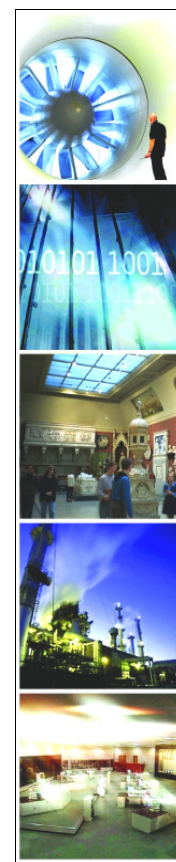
*for*

**Heating**

**Ventilation**

**Air conditioning**

**Process control**



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# QuantaDat / nSens



## QuantaDat Multisensor-Transmitter

This modular designed transmitter, with multi sensor technology, is used as a display and signal output unit with 4 sensor channels and 4 analogue outputs. This allows the management of 4 measurement points by only 1 transmitter. The sensor identification is made automatically and the channels can be assigned and configured using the onboard menu.

The integral climatic processor (Mollier chart) enables display and output of values such as dew point temperature, absolute humidity, specific enthalpy, mixing ratio etc. An RS-485 interface is integrated as standard. Bus interfaces and relay switches can be assembled with modular configuration.

Technical data	QuantaDat and QuantaDat-R
Power supply	24V +/- 15% AC or DC (galvanic isolated)
Power consumption	max. approx. 3W
Display	Graphical display with LED backlight
Analogue outputs	4 scalable analogue outputs, current 0/4...20mA or voltage 0/2...10V
Digital outputs	RS-485 (Modbus-RTU under development) 2 relay contacts (for version QuantaDat-R)
Housing material	ABS - lid blue RAL 5014, bottom grey RAL 7035
Protection class	IP54
Working temperature	0 to 50 °C

## nSens probes

An integral component of the system is the digital nSens-HT humidity/temperature and nSens-T temperature sensor which works is over the whole measurement range with high accuracy and linear response characteristics. The calibration data is stored direct onto the sensor. The verification/calibration is performed by PC using the nSoft-CAL software. These plug-in probes are quickly replaced on site and the newly calibrated system may be put back into use again quickly, maintaining highest accuracy.



Technical data	nSens-HT-ENS (humidity & temperature probe) nSens-T-NBS (temperature probe)
Measurement range	Humidity 0 ... 100% RH Temperature -20 ... +80 °C
Measurement accuracy	Humidity typ. +/- 0.5% ... +/- 2.5% RH Temperature typ. +/- 0.1K ... +/- 0.2K depending on measurement range
Number of cal. points	Humidity 13 points over the full meas. range Temperature 2 points over the full meas. range
Digital output	Novasina Bus-system
Housing material	PVDF black
Sensor protection	Standard - polyethylene dust filter (nSens-HT-ENS) Plastic protection cap (nSens-T-NBS)
Working temperature	-20 to +80 °C

### Typical applications:

- Monitoring and control of climatic processes in clean rooms, climatic chambers, mini-environments etc.
- Climatic control in paper- and textile productions
- Climatic monitoring and control in laboratories, calibration rooms etc.
- Optimisation of combustion processes in gas turbines
- Monitoring and control of climatic parameters in storages, server rooms

and many more...



## QuantaDat Multisensor Transmitter



### QuantaDat / QuantaDat-R

Multisensor with 24V AC/DC power supply. Plastic housing blue/grey with IP 54 protection class.

Suitable for connection of several remote nSens-HT or nSens-T probes with cable length up to 30m.

#### Remark:

The transmitter is normally delivered together with the nSens probe including calibration certificate, nSens cable and mounting material in the same transport packaging.

Dimension:	W150xH165xD54mm
Power supply:	24V +/- 15% AC/DC
Power consumption:	max. 3 W
Outputs:	DC max. 3.0 W
	4 x analogue U/I
	0...10V / 2...10V
	0...20mA / 4...20mA
	RS-485
Version:	QuantaDat-R with additional 2 relays
Operating cond.:	0...100% RH
	-20°...+80 °C
Calculated parameters:	-Mixing ratio
	-Water vap. partial pressure
	-Dew point temp.
	-Specific Enthalpy
	-Absolute Humidity

[260 1087](#) QuantaDat  
[260 1161](#) QuantaDat-R (with relay)

## nSens Probes & Simulators



### nSens-HT-ENS probe

Digital nSens-HT **humidity & temperature** probe with resistive-electrolytic humidity and NTC temperature sensor. With nCap-PS filter protection cap.

The calibration points are saved directly on the probe. The verification and calibration is done by the separately available nSoft-CAL calibration software. The plug-in probe can be replaced very easily.

Dimension:	L101mm x Ø 13mm
	Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 5 humidity and 2 temp. points incl. certificate
Verification & Calibration:	with nSoft-CAL software

[260 1068](#) nSens-HT-ENS



### nSens-T-NBS probe

Digital nSens-T **temperature** probe with NTC temperature sensor. With nCap-E protection cap.

The calibration points are saved directly on the probe. The verification and calibration is done by the separately available nSoft-CAL calibration software. The plug-in probe can be replaced very easily.

Dimension:	L101mm x Ø 13mm
	Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 2 temperature points incl. certificate
Verification & Calibration:	with nSoft-CAL software

[260 1084](#) nSens-T-NBS



### nSens-VAL-HT simulator

Simulation-plug for the **output of fixed values for relative humidity and temperature**. The setting of the fixed values is done with the separately available nSoft-CAL calibration software.

Simulators are used for checking and validation of climatic installations.

In order to avoid any mix-up, the nSens-VAL-HT simulator disposes of a red coloured plug tip.

Dimension:	L101mm x Ø 13mm
	Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 2 temperature points incl. certificate
Value setting:	with nSoft-CAL software

[260 1126](#) nSens-VAL-HT



### nSens-HT-ENS exchange probe

Recycled and factory calibrated digital nSens-HT-ENS **humidity & temperature** probe with resistive-electrolytic humidity and NTC temperature sensor. With nCap-PS filter protection cap.

This probe is only **delivered in a replacement mode** and can only be ordered if the already used probe of the same type is returned to Novasina.

#### Remark:

The quality of the measurement and the newly integrated sensor correspond to a brand new probe.

Dimension:	L101mm x Ø 13mm Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 5 humidity and 2 temp. points incl. certificate
Verification & Calibration:	with nSoft-CAL software

[260 1166](#) nSens-HT-ENS

## nSens cable systems



### nSens-cable

Cable 3\*0.25mm<sup>2</sup>, very robust, halogen free with plug-in coupling to nSens-HT und nSens-T probes.

On the probe side with cable plug, on the transmitter side with end sleeves for easy mounting in the terminals.

Cable lengths:	5 / 10 / 30m
Dimension cable plug:	L52mm x Ø 15.8mm Detailed information can be found in the technical data sheet.
Temperature range:	-40 °C to +90 °C
Characteristics:	Detailed information can be found in the technical data sheet.

[260 1080](#) nSens-cable 5m  
[260 1079](#) nSens-cable 10m  
[260 1078](#) nSens-cable 30m



### nSens-cable extension

Cable 3\*0.25mm<sup>2</sup>, very robust, halogen free with 2 plug-in couplings.

respectively with:

- 1 plug for nSens-HT / nSens-T probe
- 1 plug for nSens-cable cable plug

Cable length:	5m
Dimension cable plug:	1x L52mm x Ø15.8mm (on nSens probe side) 1x L57mm x Ø16mm (on nSens cable side) Detailed information can be found in the technical data sheet.
Temperature range:	see nSens-cable
Characteristics:	see nSens-cable

[260 1136](#) nSens cable extension 5m

## nSoft-CAL calibration kit



### nSoft-CAL calibration kit

Windows based software for the verification and calibration of nSens probes with the PC. Runs on Windows 98/2000/XP/Vista/Windows 7 and 8.

Incl. nLink-USB connection cable with 1,8m cable length.

respectively with:

- 1 plug for nSens-HT / nSens-T probe
- 1 USB adapter plug for PC

Contains:	- nSoft-CAL Software on CD - PDF Operating Manual on CD - nLink-USB connection cable for nSens probes with cable length of 1,8m
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[260 1094](#) nSoft-CAL Software





## Accessories and Spare parts



- [111 0885](#) -> SAL-SC 11
- [111 0855](#) -> SAL-SC 33
- [111 0857](#) -> SAL-SC 53
- [260 0219](#) -> SAL-SC 58
- [111 0859](#) -> SAL-SC 75
- [251 8965](#) -> SAL-SC 84
- [111 0896](#) -> SAL-SC 90
- [251 8966](#) -> SAL-SC 97

### Sensor-Checks SAL-SC (rh standards)

Reusable humidity standards based on saturated salt solutions in plastic cylinders with moisture permeable membranes. Each salt is delivered in a well-sealed box. Sensor Checks SC are obtainable for the following values (at 25°C) :

11.3 % rh	75.3 % rh
32.8 % rh	84.3 % rh
52.9 % rh	90.1 % rh
57.6 % rh	97.3 % rh

**Important:** please consult the operation manual of your instrument to see which points can be calibrated. Other SAL-SC can be used for verification.

Humidity values in the temperature range 15°... 30°C:

11.3	.....	11.3%	rF / 15....30°C
33.3	.....	32.4%	rF / 15....30°C
55.9	.....	51.4%	rF / 15....30°C
60.7	.....	56.0%	rF / 15....30°C
75.6	.....	75.1%	rF / 15....30°C
85.9	.....	83.6%	rF / 15....30°C
90.9	.....	89.9%	rF / 15....30°C
97.9	.....	97.0%	rF / 15....30°C

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh

Weight : 90 g



- [111 1044](#) -> SAL-SC 11 C
- [111 1037](#) -> SAL-SC 33 C
- [111 1040](#) -> SAL-SC 53 C
- [111 1035](#) -> SAL-SC 75 C
- [111 1032](#) -> SAL-SC 90 C

### Sensor-Checks SAL-SC with European certificate

Reusable humidity standards based on saturated salt solutions in plastic cylinders with moisture permeable membranes. Each salt is delivered in a well-sealed box. Sensor Checks SAL-SC are obtainable for the following values (at 25°C) :

11.3 % rh
32.8 % rh
52.9 % rh
75.3 % rh
84.3 % rh
90.1 % rh

Internationally accredited laboratory



All Novasina humidity standards can also be supplied with an internationally recognised certificate from an accredited European laboratory (UKAS England).

Weight : 90 g



- [111 7847](#) Check set (standard)
- [111 7841](#) Case without content

### Set with 5 Humidity Generators SAL-SC

Reusable humidity standards SAL-SC in a case delivered incl. the needed adapters for Novasina probes and factory calibration certificates.

Case set contains:

- SAL-SC 11
- SAL-SC 33
- SAL-SC 53
- SAL-SC 75
- SAL-SC 90
- Factory calibration certificates of SAL-SC
- 2 adapters for Novasina probes

Humidity values in the temperature range 15°... 30°C :

11.3	.....	11.3%	rF / 15....30°C
33.3	.....	32.4%	rF / 15....30°C
55.9	.....	51.4%	rF / 15....30°C
75.6	.....	75.1%	rF / 15....30°C
90.9	.....	89.9%	rF / 15....30°C

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh

Weight : 900 g



- [260 1143](#) Adapter SAL-SC / nSens

### Adapter SAL-SC for nSens probes

Plastic adapter for humidity standards. Used for diameter reduction and radial sealing around the nSens probe with diameter 13mm.

With integrated green coloured rubber sealing ring.

Dimension : Out.diam.30/In.diam.13 mm

Weight : 5 g

Material : Thermoplastic resin



- [111 1302](#) Styrofoam box

### Thermal insulation styrofoam box

A styrofoam box providing optimal insulation and temperature stabilisation of a SAL-SC check during the calibration procedure. Consisting of two half-covers for simple temporary mounting.

Dimension : 100 x 65 x 50 mm

Weight : 10 g

Material : thermal insulating styrofoam PPE



**252 4210** External power supply

### External power supply 90...260VAC

External power supply with exchangeable plugs EU/US/JP

Primary side: plug for standard sockets EU/US/JP

Secondary side: connection to QuantaDat transmitter

Primary side : Voltage range  
90 ... 260VAC  
plugs EU/US/JP

Secondary side: Voltage 24V DC +/- 5%

Bared cable ends prepared  
for connection

Weight: 90 gr



**260 1146** nCap-P filter

### nCap-P filter protection cap

With dust protection filter insert.

For optimal mechanical sensor protection as well as protection against dust.

For particle sizes up to 10 µm.

Dimension: Ø12.6mm x L36.1mm

Housing material: PVDF black

Filter insert: Polyethylene



**260 1147** nCap-PS filter

### nCap-PS filter protection cap

With silver oxide coated filter insert.

For optimal mechanical sensor protection as well as protection against dust.

Additional basic chemical sensor protection.

For particle sizes of < 10 µm.

Dimension: Ø12.6mm x L36.1mm

Housing material: PVDF black

Filter insert: Polyethylene/silver oxide



**260 1168** nCap-CM filter

### nCap-CM filter protection cap

With stainless steel metallic tissue combined with Cellgard membrane insert.

For optimal mechanical sensor protection as well as protection against fine dust.

For particle sizes up to 0.2 µm

Dimension: Ø12.6mm x L36.1mm

Housing material: PVDF black

Filter insert: stainless steel metallic tissue and Cellgard



**260 1169** nCap-CA filter

### nCap-CA filter protection cap

With active carbon combined with Cellgard membrane insert.

For optimal mechanical and dust sensor protection as well as aggressive gases such as nitrogen oxide, oil dust, ethylene.

For particle sizes up to 0.2 µm

Dimension: Ø12.6mm x L36.1mm

Housing material: PVDF black

Filter insert: active carbon and Cellgard



**260 1188** nCap-E

### nCap-E protection cap

Protection cap without filter insert.

Exclusively for mechanical protection.

**Recommended only for nSens-T temperature probes.**

Dimension: Ø12.6mm x L36.1mm

Housing material: PVDF black

Filter insert: none



**111 6812** Weather protection shield

### Weather protection shield

For outdoor applications such as meteorological stations or similar.

Including all mounting accessories and fixation of probes with diameter 13...20 mm.

Can be fixed to poles with diameter 25...50 mm.

Dimension:	270x220xØ130mm
Material:	UV stabilised, thermoplastic slats, painted steel construction
Weight:	650 g



**260 1171** nSens-HT-ENS spare part

### nSens-HT-ENS replacement probe

Digital nSens-HT **humidity & temperature** probe with resistive-electrolytic humidity and NTC temperature sensor. With nCap-PS filter protection cap.

The calibration points are saved directly on the probe. The verification and calibration is done by the separately available nSoft-CAL calibration software. The plug-in probe can be replaced very easily.

Dimension:	L101mm x Ø 13mm Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 5 humidity and 2 temp. points incl. certificate
Verification & Calibration:	with nSoft-CAL software



**260 1172** nSens-T-NBS spare part

### nSens-T-NBS replacement probe

Digital nSens-T **temperature** probe with NTC temperature sensor. With nCap-E protection cap.

The calibration points are saved directly on the probe. The verification and calibration is done by the separately available nSoft-CAL calibration software. The plug-in probe can be replaced very easily.

Dimension:	L101mm x Ø 13mm Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration:	at 2 temperature points incl. certificate
Verification & Calibration:	with nSoft-CAL software



**260 1075** nLink-USB spare part

### nLink-USB adapter

Adapter with 1,8m cable for connection of nSens probes.

respectively with:

- 1 plug for nSens-HT / nSens-T probe
- 1 USB adapter plug for PC

Contains:	nLink-USB connection cable for nSens probes with cable length of 1,8m
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**260 1083** Mounting kit for nSens

### Wall and duct mounting kit

For probe fixation to walls and inside ducts.

Fixation:

- for wall mounting clip by fixing the bracket
- for duct mounting flange by tightening the compression fitting

The clip and the flange can be mounted with the delivered screws.

**Remark:**

The duct flange seals up to a pressure of 3 bar.

Dimension:	- Wall clip H32xW20.6xD17.1mm  - Duct flange Ø 60mm Depth approx. 40mm including fitting screw-hole-circle Ø 45mm
Material:	Polyamide black





### Wall mounting kit with spacer

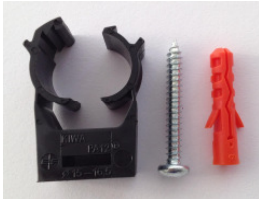
For distance of 56 mm between wall and centre of probe.

Recommended for probe mounting on temperature emitting walls.

Including all mounting material.

Dimension: - Wall clip  
H32xW20.6xD17.1mm  
- Spacer  
H35xW30xD20mm  
Material: Polyamide black

**260 1152** Mounting kit with spacer



### Wall mounting kit

For distance of 20 mm between wall and centre of probe.

Including all mounting material.

Dimension: H32xW20.6xD17.1mm  
Material: Polyamide black

**260 1165** Mounting kit



### QuantaDat housing bottom

As spare part.

Including all fittings, cable fixation bar and sealing membrane.

Dimension: W150 x H140mm  
Material: ABS grey RAL 7035

**260 1173** Housing bottom



### QuantaDat connccetor set

Spare part set including connector set for QuantaDat PCB for power supply, digital- and analogue outputs.

Connectors: - 3-Pin -> Relays  
- 2x 4-Pin -> AO  
- 1 x 2-Pin-> Power supply  
- 2 x 3-Pin-> nSens&RS485

**260 1178** Connector set



# HygroGuard 30 / ClimaLog 30 / DataLog 30



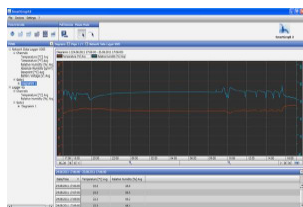
This new data logger series excel with useful functions and high versatility. As stand-alone devices or integrated in PC-networks the **HygroGuard 30**, **ClimaLog 30** and **DataLog 30** can be used in various applications for climatic data measurement and recording. The high storage capacity of 3'2 Mio data points and the AA batteries with >1 year of operation life make this data logger system ideal for many applications. The data visualisation and device configuration is done by the Windows software **SmartGraph III** which is included in the delivery.

Novasina data logging product range:

**HygroGuard 30** with internal sensors for **humidity and temperature**

**ClimaLog 30** with internal sensors for **humidity, temperature and absolute pressure sensors**

**DataLog 30** with no internal sensors ready for 10 signals for monitoring systems. Data transmission is done via a UMB-Bus interface for the ..Maxx series or 2 x 4..20 mA. (e.g. 4 x StatMaxx + 2 PascalMaxx)



## Features:

- High data storage capacity
- Large format and flexible display
- USB & Ethernet interface (TCP/IP)
- Connectable with external sensors via UMB bus for monitoring networks
- Versatile and intuitive software for data analysis

	HygroGuard 30	Model ClimaLog 30	DataLog 30
<b>MEASURED PARAMETERS</b>			
Temperature	X	X	external sensors
Relative humidity	X	X	external sensors
Absolute humidity	X (calculated)	X (calculated)	external sensors
Dew point temp..	X (calculated)	X (calculated)	external sensors
Barometric air pressure		X	external sensors
Analogue inputs ( voltage / current)			2xAI + 8x Bus
<b>FUNCTIONS - DEVICE</b>			
Power supply battery	X	X	X
Power supply USB	X	X	X
Measured data storage	3'200'000	3'200'000	3'200'000
Typ. battery life	> 1 year	> 1 year	> 1 year
LC-Display	X	X	X
One button operation	X	X	X
1-point calibration by operator	X	X	X
°C/°F switchable	X	X	X
Optical/acoustical alarm	X	X	X
Date / time	X	X	X
Records MIN/MAX/AVG	X	X	X
SmartGraph 3 evaluation software	X	X	X
UMB bus for external sensors			X (8x signal)
<b>FUNCTIONS - SmartGraph III</b>			
Graphical representation	X	X	X
Numerical data table	X	X	X
Print function	X	X	X
Export function (Excel etc.)	X	X	X
Printouts of all measurement sites	X	X	X
User administration	X	X	X
Administration of up to 255 a loggers	X	X	X
Windows API interface	X	X	X

## Applications:

- HVAC installations, clean rooms, calibration and QA laboratories
- Museums, archives, libraries, storage rooms
- Building Management Systems and monitoring systems
- Pharmaceutical- chemical-, biotechnology, food-industry

## Data logger systems:

Dimensions : 166x78x32 mm  
 Weight : 250 g  
 Power supply : 4 x LRG AA Mignon batteries, USB  
 - life time > 1 year  
 Housing/protection : plastic ABS / IP40  
 Data storage : 16 MB, 3'200'000 measured values  
 Interface : USB, LAN (Ethernet)

Measurement rate : 10/30s, 1/10/12/15/30 min., 1/3/6/12/24h  
 Storage rate : 1/10/12/15/30min., 1/3/6/12/24h

## Humidity measurement:

Capacitive measurement principle  
 Measuring range : 10...95% RH  
 not condensing  
 Accuracy : +/- 2.0%rh  
 Resolution : 0.5%rh

## Temperature measurement:

NTC measurement principle  
 Measuring range : -20...50°C  
 Accuracy : +/- 0.3°C (0...40°C)  
 otherwise +/- 0.5°C  
 Resolution : 0.1°C

## Air pressure measurement:

Measuring range : 300...1300hPa abs.  
 Accuracy : +/- 0.5hPa  
 (700...1100hPa)  
 Resolution : 0.1hPa



## HygroGuard 30 / ClimaLog 30 / DataLog 30



**260 0867** HygroGuard 30

### HygroGuard 30 Data logger system

Battery powered data logger for recording of **humidity, temperature/dew point** with 16 MB data storage (3'200'000 values) with visualisation and configuration software and big LC-Display 90 x 64 mm.

#### Delivery includes:

- HygroGuard 30 device incl. 4 batteries
- 2m USB data transfer cable
- SmartGraph III software (on included CD)
- Operation manual (on the CD)
- Novasina factory calibration certificate

Dimensions: 166x78x32 mm  
Weight: 250 g

Power supply: **4 x LRG AA Mignon** batteries (life time > 1 year)

Housing/protection: plastic ABS / IP40

Storage: 3'200'000 measured val.

Interface: USB, LAN (Ethernet)

Meas. rate: 10/30s, 1/10/12/15/30min., 1/3/6/12/24h

Storage rate: 1/10/12/15/30min., 1/3/6/12/24h



**260 0866** ClimaLog 30

### ClimaLog 30 Data logger system

Battery powered data logger for recording of **humidity, temperature/dew point and absolute pressure** with 16 MB data storage (3'200'000 values) with visualisation and configuration software and big LC-Display 90 x 64 mm.

#### Delivery includes:

- ClimaLog 30 device incl. 4 batteries
- 2m USB data transfer cable
- SmartGraph III software (on included CD)
- Operation manual (on the CD)
- Novasina factory calibration certificate

Dimensions: 166x78x32 mm  
Weight: 250 g

Power supply: **4 x LRG AA Mignon** batteries (life time > 1 year)

Housing/protection: plastic ABS / IP40

Storage: 3'200'000 measured val.

Interface: USB, LAN (Ethernet)

Meas. rate: 10/30s, 1/10/12/15/30min., 1/3/6/12/24h

Storage rate: 1/10/12/15/30min., 1/3/6/12/24h



**260 0868** DataLog 30

### DataLog 30 Data logger system

Battery powered data logger for recording max. 10 channels (UMB interface and 2 analogue input U/I). With 16 MB data storage (3'200'000 values) with visualisation and configuration software and big LC-Display 90 x 64 mm.

Recommended external RH/T sensors from Novasina are the StatMaxx "UMB" or HygroMaxx / TempMaxx / PascalMaxx models (*see accessories below*)

#### Delivery includes:

- DataLog 30 device incl. 4 batteries
- 2m USB data transfer cable
- SmartGraph III software (on included CD)
- Operation manual (on the CD)
- Novasina factory calibration certificate

Dimensions: 166x78x32 mm  
Weight: 250 g

Power supply: **4 x LRG AA Mignon** batteries (life time > 1 year)

Housing/protection: plastic ABS / IP40

Storage: 3'200'000 measured val.

Interface: USB, LAN (Ethernet) and UMB (*universal measurement bus*)

Total : max. 10 channels  
8 channels via UMB  
2 channels  
0...10V/4...20mA

Meas. rate: 10/30s, 1/10/12/15/30min., 1/3/6/12/24h

Storage rate: 1/10/12/15/30min., 1/3/6/12/24h

## Accessories

for HygroGuard 30 / ClimaLog 30



**260 0871**  
HygroGuard 30 DAKKS certificate

### HygroGuard 30 DAKKS calibration

Calibration certificate according to the official DAKKS accredited procedure.

Calibration at 3 RH points and 1 temperature point.

DAKKS calibration including official certificate

Rel.humidity : 20%, 50%, 80%rh  
at 20°C

Temperature : 20°C



**260 0870**

**ClimaLog30 DAkkS certificate**

### ClimaLog 30 DAkkS calibration

Calibration certificate according to the official DAkkS accredited procedure.

Calibration at 3 RH points, 1 temperature point and 5 absolute pressure points.

DAkkS calibration including official certificate

#### Calibration points:

Rel.humidity : 20%, 50%, 80%rh  
at 20°C

Temperature : 20°C

Abs. pressure : 5 points

in range 750 ...1100 mbar



**260 0872**

**USB power supply**

### USB power supply

Power supply with USB socket to power HygroGuard 30 ClimaLog 30 or DataLog 30 with an external power supply. In such cases the internal AA batteries are only for backup and in case of a power failure.

2m USB cable already included in data logger package!

Dimensions: 55x25x80 mm

Weight: 50 g

Input power : **100...260V AC**  
50/60 Hz

Output power : +5V DC USB  
1200mA / 6W

Housing/protection: plastic ABS / IP40

## Options

for DataLog 30 monitoring systems



**260 0840 StatMaxx S**

### StatMaxx S

The **StatMaxx S** is a universal measurement instrument for air humidity and temperature measurement in rooms. The instrument has an UMB interface (4 units up to 150m total bus cable length) and the possibility of a 2 point control/alarming with an internal relay (*isolated 30V switch for LOG-PU power supply*)

#### Delivery includes:

Mounting accessories and operating manual

Dimensions: 110 x 118 x 50mm

Probe: diameter 13 x 58 mm

Weight: 220 g

Power supply: 24 VDC  $\pm$  20%

Outputs: UMB interface for 4  
StatMaxx and DataLog 30  
1 ON/Off switch  
30V / 2 A for alarm  
control with **set point**

Optional: factory calibration RH/T  
33, 75 % RH / 25°C



**260 0839 StatMaxx R**

### StatMaxx R

The **StatMaxx R** is a universal measurement instrument for air humidity and temperature measurement in ducts. The instrument has an UMB interface (4 units up to 150m total bus cable length) and the possibility of a 2 point control/alarming with an internal relay (*isolated 30V switch for LOG-PU power supply*)

#### Delivery includes:

Mounting accessories and operating manual

#### Remark:

Duct mounting kit is not included and must be ordered separately, see below.

Dimensions: 110 x 118 x 50mm

Probe: diameter 13 x 250 mm

Weight: 240 g

Power supply: 24 VDC  $\pm$  20%

Outputs: UMB interface for 4  
StatMaxx and DataLog 30  
1 ON/Off switch  
30V / 2 A for alarm  
control with **set point**

Optional: factory calibration RH/T  
33, 75 % RH / 25°C



**260 0841 StatMaxx M**

### StatMaxx M

The **StatMaxx M** is a universal measurement instrument for air humidity and temperature with remote sensor with 3m cable. The instrument has an UMB interface (4 units up to 150m total bus cable length) and the possibility of a 2 point control/alarming with an internal relay (*isolated 30V switch for LOG-PU power supply*)

#### Delivery includes:

Mounting accessories and operating manual

#### Remark:

Duct mounting kit not included (see accessories)

Dimensions: 110 x 118 x 50mm

Probe: diameter 13 x 250 mm with  
3 m cable

Weight: 240 g

Power supply: 24 VDC  $\pm$  20%

Outputs: UMB interface for 4  
StatMaxx and DataLog 30  
1 ON/Off switch  
30V / 2 A for alarm  
control with **set point**

Optional: factory calibration RH/T  
33, 75 % RH / 25°C



**111 5343**  
Duct mounting kit

### Duct mounting kit

Duct mounting flange for **StatMaxx R**. For easy and tight mounting to ducts or through walls/ceilings incl. sealing O-ring. Installation with 3 screws. The 13mm tight flange hole resists an overpressure of 3 bars. Sensor can be removed at any time for adjustment.

-> Diameter fixation range: diam. 10 ... 14 mm

### Duct mounting kit StatMaxx R:

Dimensions : 60 x 20 mm

Weight : 30 g

Installation range: diam. 9...14mm



**260 0869** LOG-PU

### LOG-PU power unit and wiring

Power supply unit for monitoring system for 1 DataLog 30 and up to 4 external sensors StatMaxx, HygroMaxx, TempMaxx and PascalMaxx.

Building up a simple network node with up to 10 measurement values requires a 115...230 VAC power supply and Ethernet TCP/IP connection (RJ 45).

Dimensions: 215x110x90 mm

Weight: 800 g

Input power : **115...230V AC**  
50/60 Hz

Output power : 24V DC / 15W  
0.63 A

Ready for UMB bus cable (2x2 wire for power and signal) up to 4 ...Maxx instruments.



**260 0873** UMB connector  
for the DataLog 30

### UMB-bus connector

Connector for UMB-bus cable connection between a DataLog 30 unit and UMB sensors (e.g. StatMaxx).

#### Note:

The DataLog 30 device has also an additional analogue input that can be used parallel to the UMB connection.

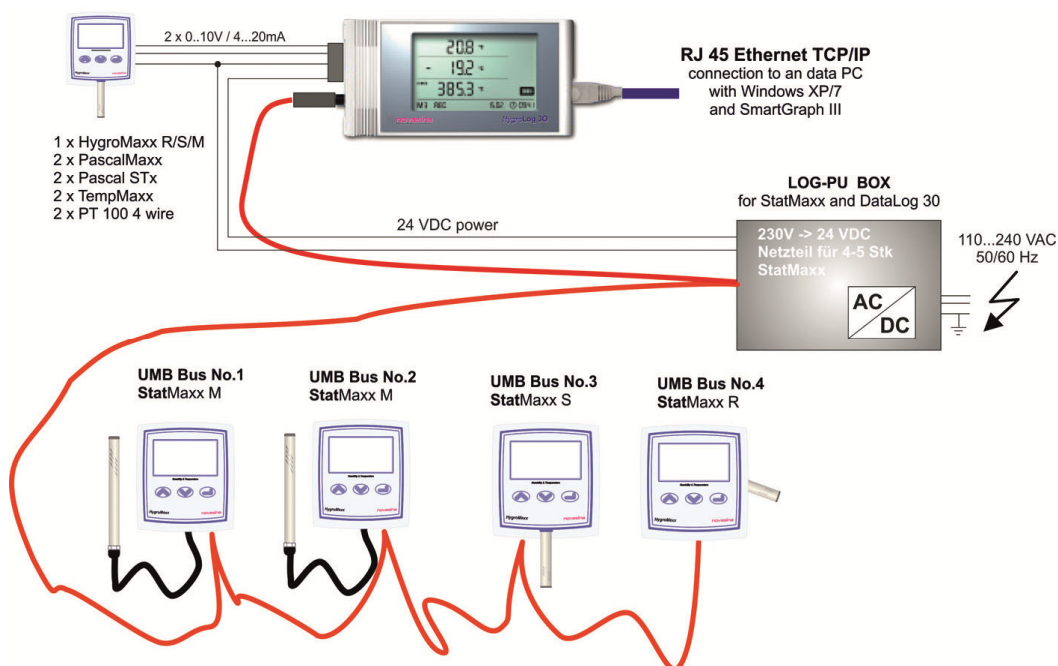
Dimensions: 20 x 60 mm

Weight: 30 g

Connection: 5 pol with screw  
for UMB bus and  
Power of the StatMaxx

Ready for UMB bus cable (2x2 wire for power and signal)  
UMB-bus length max. 150 m

## Installation example







# HygroMaxx

High performance measuring instrument with large LCDisplay for air relative humidity and temperature. For installations in rooms or ducts. The digital capacitive humidity measurement cell in conjunction with a newly developed sensor technology, enable this device to be used in various applications for measuring climatic parameters. Operation is effected via 3 keys and an intuitive menu. The **HygroMaxx** transmits 2 analogue outputs for relative humidity and temperature. These can be scaled as required. Optimal integration into a control system can therefore be achieved. The **HygroMaxx** is available in different versions for room and duct measurement.

## Technical specifications at a glance:

<b>Working range RH</b>	:	0...100% RH
<b>Working range T</b>	:	-20...80 °C (sensor) 0...50 °C (transmitter)
<b>Meas. accuracy</b>	:	RH: +/- 3.0% RH at 5...95% RH and 0...50 °C +/- 1.5% RH at 10...90% RH and 15...30 °C (with 3 point calibration with SAL-SC hum. standards) T: +/- 0.5 °K at 0...50 °C / +/- 0.8 °K at -20...80 °C
<b>Signal output</b>	:	2 analogue outputs U/I (selectable) U : 0...10V : 2...10V / I : 0...20mA : 4...20mA freely scalable output-characteristic curve operated by integrated configuration menu
<b>Display</b>	:	2 line display RH and Temp. contemporaneously, error/menu control display, dimensions 60x30 mm
<b>Functions</b>	:	units °C / °F, adjustment at 3 humidity points and 1 temperature point, scalable analogue outputs, moving average display 1/4, 1, 3 hours, keylock by password
<b>Adjustment</b>	:	checkable and adjustable at any time at 3 RH points using the proven Novasina humidity standards SAL-SC
<b>Measurement principle</b>	:	RH: digital capacitive CMOS-Sens® technology Temp.: digital PN barrier layer

## HygroMaxx

Humidity/temperature transmitter for HVAC and process controls with local LCDisplay.

The **HygroMaxx** product series have been developed following the newest technology in monitoring and controlling in the HVAC sector. These products represent an ideal combination of performance and price. The new sensor technology, the configuration possibilities and the robust design set a new standard in the HVAC field.

Thanks to the new design conception, these instruments are easy for installation and maintenance. Integrated menu functions facilitate the start-up, service resp. the RH adjustment with the Novasina SAL-SC humidity standards. Furthermore this product can be easily customised and adapted to specific needs (OEM versions).

### Applications:

- HVAC process-control and -monitoring
- Paper and textile manufacturing and handling
- Controls and monitoring systems in labs and metrology rooms
- Monitoring of industrial combustion processes
- Storage and archive monitoring in museums and libraries
- Storage systems, cooling rooms in the food & pharma industry

### Measurement instrument **HygroMaxx**:

Dimension : 110 x 118 x 50mm  
Power supply : 24 V DC ± 20%

Probe length S-type: diam.13 x 58 mm  
Probe length R-type: diam.13 x 250 mm

### Humidity measurement:

CMOS-Sens® technology, digital capacitive  
Measurement range : 0...100 % RH  
Reproducibility : ± 1.0 % RH  
Max.accuracy (standard) : ± 3.0 % RH  
Max.accuracy (calibrated) : ± 1.5 % RH

### Temperature measurement:

digital PN barrier silicon layer  
Measurement range : -20...80 °C  
Reproducibility : +/- 0.1 °K  
Accuracy : +/- 0.5 °K (0...50 °C)  
Accuracy : +/- 0.8 °K (-20...80 °C)

### Sensor Checks SAL-SC:

Humidity standards based on saturated salt solutions in plastic cylindrical containers. For multiple use, with „Cellgard“ humidity permeable membrane.

For values: 11%, 33%, 53%, 75%, 90% RH



HVAC and industry transmitter system

## HygroMaxx S / R / M



**252 3054 HygroMaxx S**

### HygroMaxx S

*Humidity/Temperature measurement instruments for rooms*

HVAC transmitter with stylish designed, robust, two-part plastic housing. Ideal for room measurements, monitoring and controlling of climatic parameters. 24 VDC power supply (no galvanic separation), 2 analogue outputs (U or I) for temperature and relative air humidity. The cable entry easily made via the housing's underside. The device is fixed with 4 screws to the wall. The big LCDisplay allows a good readability, even from the distance. Various menu functions and adjustment of RH and T as well as the analogue outputs and a password protection complete this versatile instrument.

#### Transmitter HygroMaxx S:

Dimension: 110 x 118 x 50mm  
Probe: diameter 13 x 58 mm  
Weight: 220 g  
Power supply: 24 VDC  $\pm$  20%  
Outputs: 2 x analogue U/I  
0...10V / 2...10V  
0...20mA / 4...20mA  
Meas.range: 0...100% / -20...+80 °C  
(only sensor)  
Units: RH / °C or °F  
Including mounting accessories and operating manual  
Optional: factory calibration RH/T



**252 3129 HygroMaxx R**

### HygroMaxx R

*Humidity/Temperature measurement instruments for ducts*

HVAC transmitter with aesthetic design, robust, two-part plastic housing. Ideal for duct measurements, monitoring and controlling of climatic parameters. 24 VDC power supply (no galvanic separation), 2 analogue outputs (U or I) for temperature and relative air humidity. The cable entry is easily made via the housing's underside. The device is fixed directly or with a mounting flange to the air duct. The big LCDisplay allows a good readability, even from the distance. Various menu functions as adjustment of RH and T as well as the analogue outputs and a password protection complete this versatile instrument.

#### Transmitter HygroMaxx R:

Dimension: 110 x 118 x 50mm  
Probe: diameter 13 x 250 mm  
Weight: 280 g  
Power supply: 24 VDC  $\pm$  20%  
Outputs: 2 x analogue U/I  
0...10V / 2...10V  
0...20mA / 4...20mA  
Meas.range: 0...100% / -20...+80 °C  
(only sensor)  
Units: RH / °C or °F  
Including mounting accessories and operating manual  
Optional: factory calibration RH/T  
Accessories: duct mounting flange  
(not included in scope of delivery)



**252 3130 HygroMaxx M**

**Including SensMaxx 13 remote sensor**

### HygroMaxx M

*Humidity/Temp.measurement instrument for remote probe*

HVAC transmitter with aesthetic design, robust, two-part plastic housing. The included remote sensor probe **SensMaxx 13** with 3m cable makes this instrument ideal for monitoring and controlling of processes, where a high flexibility is required. 24 VDC power supply (no galvanic separation), 2 analogue outputs (U or I) for temperature and relative air humidity. The cable entry is easily made via the housing's underside. The device is fixed with 4 screws to the wall. The big LCDisplay allows a good readability, even from the distance. Various menu functions as adjustment of RH and T as well as the analogue outputs and a password protection complete this versatile instrument.

#### Transmitter HygroMaxx M:

Dimension: 110 x 118 x 50mm  
Probe: diameter 13 x 250 mm  
Weight: 200 g  
Power supply: 24 VDC  $\pm$  20%  
Outputs: 2 x analogue U/I  
0...10V / 2...10V  
0...20mA / 4...20mA  
Meas.range: 0...100% / -20...+80 °C  
(only sensor)  
Units: RH / °C or °F  
Including mounting accessories and operating manual  
Optional: factory calibration RH/T  
Accessories: duct & wall mounting flange  
(not included in scope of delivery)



# StatMaxx



The Novasina *StatMaxx* is a state-of-the-art **hygro/thermostat** for effective control applications for relative air humidity and air temperature. The configuration is made by 3 front buttons and an intuitive menu structure directly on the device. The alarm and control function drive an integrated relay switch for turn on/off an heater or humidifier. If you need data monitoring, there is an integrated bus interface (UMB - Universal Measurement Bus) implemented. This characteristics make the StatMaxx very versatile for climatic controls, monitoring and/or management of humidifiers and temperature controllers. This transmitter series offer 2 different models for wall (S type) or duct (R type) mounting.

## Technical specifications at a glance:

<b>Working range RH</b>	: 0...100% RH
<b>Working range T</b>	: -20...80 °C (sensor) 0...50 °C (transmitter)
<b>Meas. accuracy</b>	: Rel. humidity: +/- 3.0% RH at 5...95% RH and 0...50 °C +/- 1.5% RH at 10...90% RH and 15...30 °C (with 3 point calibration with SAL-SC hum. standards) Temperature: +/- 0.5 °K at 0...50 °C / +/- 0.8 °K at -20...80 °C
<b>Signal output</b>	: - 1 digital output by relay NO/NC max. 260VAC/2A - 1 UMB Bus interface (Universal Measurement Bus)
<b>Display</b>	: 2 line display RH and T, menu display, error messages. Dimension 60x30 mm
<b>Functions</b>	: units °C / °F, adjustment at 3 humidity points and 1 temperature point, alarm level setting incl. delay and hysteresis, UMB-bus configuration, moving average display 1/4, 1, 3 hours, key lock by password
<b>Adjustment</b>	: with Novasina SAL-SC standards at 3 RH points with referential instrument at 1 Temp. point
<b>Measurement principle</b>	: Rel. humidity: digital capacitive CMOS-Sens <sup>®</sup> technology Temperature: digital PN barrier layer

## StatMaxx

Humidity/temperature hygrostat with LC-Display for HVAC and simple process controls.

The **StatMaxx** hygrostats have the latest state-of-the-art technology on board and can be used for 2-point controlling systems for humidity and temperature regulation. The used sensor technologies, the easy configuration possibilities and the robust design make this device ideal for applications in HVAC processes.

Thanks to its design the *StatMaxx* can be easily mounted and put into operation. Another plus is the maintenance and calibration that can be performed on site with the Novasina multiple use SAL-SC humidity standards. Last but not least the small dimensions and the big display assure an ideal positioning and a good readability of the actual values and messages displayed on the LCD. Of course and as habitually this instrument can be also customised and adapted to specific customer needs (OEM versions).

### Applications:

- HVAC process-control and -monitoring (2-point controls)
- Paper and textile manufacturing and handling
- Control of humidifiers and heating coils
- Storages in various industries such as food & pharmaceutical
- Storages, archives in museums, libraries
- OEM solutions in combination with humidifiers/dehumidifiers

### Measurement instrument StatMaxx:

Dimension	: 110 x 118 x 50mm
Power supply	: 24 V DC ± 20%

Probe length S-type:	diam.13 x 58 mm
Probe length R-type:	diam.13 x 250 mm

### Humidity measurement:

CMOS-Sens <sup>®</sup> technology, digital capacitive	
Measurement range	: 0...100 % RH
Reproducibility	: ± 1.0 % RH
Max.accuracy (standard)	: ± 3.0 % RH
Max.accuracy (calibrated)	: ± 1.5 % RH

### Temperature measurement:

digital PN barrier silicon layer	
Measurement range	: -20...80 °C
Reproducibility	: +/- 0.1 °K
Accuracy	: +/- 0.5 °K (0...50 °C)
Accuracy	: +/- 0.8 °K (-20...80 °C)

### Sensor Checks SAL-SC:

Humidity standards based on saturated salt solutions in plastic cylindrical containers. For multiple use, with „Cellgard“ humidity permeable membrane.

For values: 11%, 33%, 53%, 75%, 90% RH



HVAC and industry transmitter system

## StatMaxx S / R / M



**260 0840 StatMaxx S**

### StatMaxx S

Hygrostat with robust, two-part plastic housing and robust design for wall mounting with integrated sensor shaft. Ideal for use in rooms.

Power cable can be easily inserted via the housing underside. The device is fixed with 4 screws.

UMB bus tot. length: max. 150m (4 units + Datalog)

Main menu functions are: calibration; alarm, delay and hysteresis settings; configuration of the UMB (Universal Measurement Bus).

Delivery includes:

Mounting accessories and operating manual

Dimension: 110 x 118 x 50mm

Probe: diameter 13 x 58 mm

Weight: 220 g

Power supply: 24 VDC  $\pm$  20%

Outputs:

- 1 digital output by relay  
NO/NC max. 30VACDC/2A
- UMB-bus interface  
(Universal Measurement Bus)

Meas.range: 0...100% / -20...+80 °C  
(only sensor)

Units: RH / °C or °F

Optional: factory calibration RH/T  
33, 75 % RH / 25 °C



**260 0839 StatMaxx R**

### StatMaxx R

Hygrostat with robust, two-part plastic housing and robust design for wall mounting with integrated sensor shaft. Ideal for use in air ducts (back side). Power cable can be easily inserted via the housing underside. The device is fixed with 4 screws.

UMB bus tot. length: max. 150m (4 units + Datalog)

Main menu functions are: calibration; alarm, delay and hysteresis settings; configuration of the UMB (Universal Measurement Bus).

Delivery includes:

Mounting accessories and operating manual

Remark:

Duct mounting kit not included (see accessories)

Dimension: 110 x 118 x 50mm

Probe: diameter 13 x 250 mm

Weight: 220 g

Power supply: 24 VDC  $\pm$  20%

Outputs:

- 1 digital output by relay  
NO/NC max. 30VACDC/2A
- UMB-bus interface  
(Universal Measurement Bus)

Meas.range: 0...100% / -20...+80 °C  
(only sensor)

Units: RH / °C or °F

Optional: factory calibration RH/T  
33, 75 % RH / 25 °C



**260 0841 StatMaxx M**

### StatMaxx M

Hygrostat with robust, two-part plastic housing and robust design for wall mounting with integrated sensor shaft. Ideal for use in air ducts or rooms. Power cable can be easily inserted via the housing underside. The device is fixed with 4 screws.

UMB bus tot. length: max. 150m (4 units + Datalog)

Main menu functions are: calibration; alarm, delay and hysteresis settings; configuration of the UMB (Universal Measurement Bus).

Delivery includes:

Mounting accessories and operating manual

Remark:

Duct mounting kit not included (see accessories)

Dimensions: 110 x 118 x 50mm  
Probe: diameter 13 x 250 mm with  
3 m cable

Weight: 240 g

Power supply: 24 VDC  $\pm$  20%

Outputs:

- 1 digital output by relay  
NO/NC max. 30VACDC/2A
- UMB-bus interface  
(Universal Measurement Bus)

Meas.range: 0...100% / -20...+80 °C  
(only sensor)

Units: RH / °C or °F

Optional: factory calibration RH/T  
33, 75 % RH / 25 °C



**260 0877 STAT-PU**

### STAT-PU power unit

Power supply unit and switch for 2 point control in combination with 1 unit StatMaxx for switching ON / OFF high power devices (up to 11 kW) like heaters, coolers, humidifiers, dehumidifiers.

With integrated 3-phase relay for 115...600V, 11kW, galvanic isolated. Also integrated is a 24V power supply for the StatMaxx and a power switch.

Dimensions: 225x110x90 mm

Weight: 700 g

Input power : **110...250V AC /15W**  
50/60 Hz

Output power : 24V DC / 15W  
500 mA / 15W

3 phase galv.isolated switch NO  
max. 11 kW.  
1 auxiliary contact isolated NO <= 17VDC/5mA  
115...600V / 16A





## Accessories

HygroMaxx & StatMaxx



**111 5343** Duct mounting kit

### Duct mounting kit

Duct mounting flange for easy and tight mounting to ducts or through walls/ceilings incl. sealing O-ring. Installation with 3 screws. The 13mm tight flange hole resists an overpressure of 3 bars. Sensor can be removed at any time for adjustment.

-> Diameter fixation range: diam. 10 ... 14 mm

### Duct mounting kit StatMaxx:

Dimension : 60 x 20 mm

Weight : 30 g

Installation range : diam. 9...14 mm



**252 4468** Wall mounting Clip

### Wall mounting kit 13 mm

(for HygroMaxx M type external sensor)

Wall mounting clips (2 pcs) for the fixation of the **SensMaxx 13** probes to walls with M4 wood, plastic or metal screws. Clips can be used several times.

### Wall mounting clip SensMaxx:

Material : polycarbonate

Quantity : 2 pcs

Weight : 15 g



- 111 0885** -> SAL-SC 11
- 111 0855** -> SAL-SC 33
- 111 0857** -> SAL-SC 53
- 260 0219** -> SAL-SC 58
- 111 0859** -> SAL-SC 75
- 251 8965** -> SAL-SC 84
- 111 0896** -> SAL-SC 90
- 251 8966** -> SAL-SC 97

### Sensor-Checks SAL-SC (rh standards)

Reusable humidity standards based on saturated salt solutions in plastic cylinders with moisture permeable membranes. Each salt is delivered in a well-sealed box. Sensor Checks SC are obtainable for the following values (at 25°C) :

11.3 % rh	75.3 % rh
32.8 % rh	84.3 % rh
52.9 % rh	90.1 % rh
57.6 % rh	97.3 % rh

**Important:** please consult the operation manual of your instrument to see which points can be calibrated. Other SAL-SC can be used for verification.

### Humidity values in the temperature range 15° .... 30°C:

11.3 .....	11.3% rF / 15...30°C
33.3 .....	32.4% rF / 15...30°C
55.9 .....	51.4% rF / 15...30°C
60.7 .....	56.0% rF / 15...30°C
75.6 .....	75.1% rF / 15...30°C
85.9 .....	83.6% rF / 15...30°C
90.9 .....	89.9% rF / 15...30°C
97.9 .....	97.0% rF / 15...30°C

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh

Weight : 90 g



- 111 1044** -> SAL-SC 11 C
- 111 1037** -> SAL-SC 33 C
- 111 1040** -> SAL-SC 53 C
- 111 1035** -> SAL-SC 75 C
- 111 1032** -> SAL-SC 90 C

### Sensor-Checks SAL-SC with European certificate

Reusable humidity standards based on saturated salt solutions in plastic cylinders with moisture permeable membranes. Each salt is delivered in a well-sealed box. Sensor Checks SAL-SC are obtainable for the following values (at 25°C) :

11.3 % rh
32.8 % rh
52.9 % rh
75.3 % rh
84.3 % rh
90.1 % rh

### Internationally accredited laboratory



All Novasina humidity standards can also be supplied with an internationally recognised certificate from an accredited European laboratory (UKAS England).

Weight : 90 g



- 111 7847** Check set (standard)
- 111 7841** Case without content

### Set with 5 Humidity Generators SAL-SC

Reusable humidity standards SAL-SC in a case delivered incl. the needed adapters for Novasina probes and factory calibration certificates.

Case set contains:

- SAL-SC 11
- SAL-SC 33
- SAL-SC 53
- SAL-SC 75
- SAL-SC 90
- Factory calibration certificates of SAL-SC
- 2 adapters for Novasina probes

### Humidity values in the temperature range 15°... 30°C :

11.3 .....	11.3% rF / 15...30°C
33.3 .....	32.4% rF / 15...30°C
55.9 .....	51.4% rF / 15...30°C
75.6 .....	75.1% rF / 15...30°C
90.9 .....	89.9% rF / 15...30°C

The precision corresponds to the Greenspan Report 1977 typically +/- 0.3 % rh

Weight : 900 g





**110 7345** Adapter CH

### SAL-SC Sensor check adapter CH for sensors with diameter 13 mm

This adapter is needed for calibration of a system with sensor diameter 13 mm. It ensures an airtight fixation of a SAL-SC check to the sensor top (measurement cell area). It reduces the diameter of 20 mm to 13 mm and ensures an airtight seal.

-> The adapter should be first mounted on the sensor top and then putted the SAL-SC check on it. Both seals should be carefully checked, leaks will bias the calibration.

### CH adapter to SAL-SC salts for sensors with diameter 13 mm:

Dimensions : 30 x 13 mm  
Material : Polycarbonate, rubber  
Weight : 5 g



**111 1302** Styrofoam box

### Thermal insulation styrofoam box For the SAL-SC sensor checks

A styrofoam box providing optimal insulation and temperature stabilisation of a SAL-SC check during the calibration procedure. Consisting of two half-covers for simple temporary mounting.

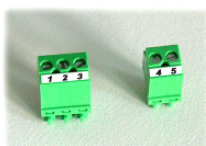
-> Can be used together with the SAL-SC calibration kit

### Styrofoam box for the SC check:

Dimensions : 100 x 65 x 50 mm  
Weight : 10 g  
Material : thermal insulating styrofoam PPE

## Spare parts

HygroMaxx & StatMaxx



**252 3134** Spare part plug set

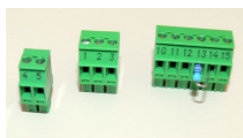
### Spare plug set - HygroMaxx

Spare plug set for main board, for power supply and analogue outputs.

Attention: use only 24 VDC +/- 10% power supply !

### Spare plug set for HygroMaxx:

Plug : 2 pole 3.84 mm for power supply  
3 pole 3.84 mm for analogue outputs  
Weight : total 20 g



**260 0884** Spare part plug set

### Spare plug set - StatMaxx

Spare plug set for main board, for power, UMB and Relay output

### Spare plug set for StatMaxx:

Plug : - 3 pole 3.84 mm for power supply & digital output  
- 6 pole 3.84 mm for UMB bus  
- 4pole for switch 230V  
Weight : total 15 g



**252 3131** room sensor for S-type transmitters

### Spare room sensor

Spare sensor for **S-type** transmitters. The sensor (length 75 mm) can be replaced by un-tighten the 2 screws in the cover and unplugging the RJ 11 connector.

Recommendation: switch off the power supply before you replace the sensor

### Spare sensor :

Dimension : Ø 13 x 75 mm  
Cable : 150mm with RJ 11  
Weight : 15 g  
Housing : plastic armature without filter



**252 3132** duct sensor

### Spare duct sensor

Spare sensor (length 250mm) for **R-type** transmitters. Duct mounting flange not included.

Recommendation: switch off the power supply before you replace the sensor

### Spare sensor :

Dimension : Ø 12,7 x L 250 mm  
Cable : 150mm with RJ 11  
Weight : 80 g  
Housing : stainless steel with protection filter



**252 3133** remote sensor

### Remote sensor for HygroMaxx M

Spare remote sensor with **3m cable**. Duct mounting flange not included.

Recommendation: switch off the power supply before you replace the sensor

### Spare sensor :

Dimension : Ø 12,7 x L 250 mm  
Cable : 3m with free wire endings !  
Weight : 150 g  
Housing : stainless steel with protection filter



**260 0940** remote sensor

### Remote sensor for StatMaxx M

Spare remote sensor with **3m cable**. Duct mounting flange not included.

**Recommendation:** switch off the power supply before you replace the sensor

#### Spare sensor :

Dimension : Ø 12,7 x L 250 mm

Cable : 3m with free wire endings !

Weight : 150 g

Housing : stainless steel with protection filter



**252 3135** housing bottom

### Housing bottom

As spare part for damaged housings.

#### Spare housing bottom:

Dimension : 110 x118 x 35 mm

Weight : 80 g

Material : PVC

## Options

HygroMaxx & StatMaxx



**252 4210** power supply EU/US/JP

### External power supply 90...264VAC/EUR

External primary power supply, for voltage range 90 to 264 VAC with exchangeable plugs EU/US/JP.

From the secondary side this power supply can be connected directly to the transmitter.

#### Technical data:

##### Primary side :

Voltage range: 90 ... 264VAC  
EU/US/JP

##### Secondary side :

Voltage: 24V DC +/- 5%

Cable ends unshielded and ready for connection.

Weight: 90 gr



**252 4212**

### Factory calibration

*Including Novasina factory calibration certificate*

Factory calibration and certificate for 3 humidity points (11%, 53%, 75% RH) & 1 temperature point (+25°C).

-> Enables a higher measurement accuracy

#### Factory calibration certificate :

The shipping of new instruments is always including factory calibration certificate, provided that the calibration has been ordered with PN 2524212.



[See price list calibration](#)

### UKAS certification

*in an accredited European laboratory*

UKAS certification at min. two humidity points and if required at one or more temperature points.

**For M versions, the remote sensor has to be sent together with the corresponding transmitter.**

#### International certified laboratory



**Novasina offers the possibility to buy UKAS certified measuring instruments.**



**111 6812** Weather protection shield

### Weather protection shield

For outdoor applications such as meteorological stations or similar.

Including all mounting accessories and fixation of probes with diameter 13...20 mm.

Can be fixed to poles with diameter 25...50 mm.

Dimension: 270x220xØ130mm

Material: UV stabilised, thermoplastic slats, painted steel construction

Weight: 650 g



# TempMaxx



The TempMaxx is a precision measurement instrument with integrated control functions for the detection of temperature with external resistor sensors. The large displays, intuitive menu structure as well as the possibility to connect various sensors make this device extremely versatile for almost all industrial applications. The external sensors can not only detect very accurately the temperature in air, but also in liquids, solid objects and surfaces. A digital electronics design allows using the TempMaxx transducer in manifold applications such as monitoring, control and alarming.

This new instrument provides a scalable analogue output (U & I) as well as a relay switch output for 2 point control functions. The large LCD display indicates temperatures up to +400 °C and °F. All versions of PT 100 / 1'000, Ni 1'000 or NTC elements can be wired in 2-, 3- or 4-wire technology. Using the integrated adjustment function, the TempMaxx transducer can be adapted ideally to each external sensor.

## Technical specifications at a glance:

<b>Temperature</b>	:	0...50 °C ( <i>operational temperature transducer</i> ) -50...400 °C ( <i>meas. range PT 100/1'000 sensor</i> ) -50...200 °C ( <i>meas. range Ni 1'000 sensor</i> ) -20...80 °C ( <i>meas. range NTC Beta Therm sensor</i> )
<b>Accuracy</b>	:	+/- 0.15% Full scale ( <i>transducer accuracy</i> ) depending on resistor element ( <i>see PT DIN classifications</i> )
<b>Signal output</b>	:	1 analogue output U & I (usable in parallel) U: 0...10V ; 2...10V / I: 0...20mA ; 4...20mA free scalable output curve by configuration menu 1 digital output by relay NO/NC max. 260VAC/2A
<b>Display</b>	:	2-line display for temperature °C or °F and Status/Error/Menu display, dimensions 60x30 mm
<b>Functions</b>	:	Selectable units: °C / °F, Scalable analogue outputs Setting of hysteresis and delay for alarm- or 2-point control purposes Password protection system
<b>Adjustment</b>	:	2-point temperature adjustment for each sensor type
<b>Measurement principle</b>	:	Platinum-, Nickel-resistor elements, NTC thermistors

## TempMaxx

Temperature transducer for HVAC and process controls with LCD display.

The **TempMaxx** product line has been developed following the most recent know-how in the HVAC control field. This line brings an ideal symbiosis of performance and price. The robust and ergonomic design of the whole ...Maxx product line has been developed especially for industrial applications.

Thanks to its clever design the instrument can be installed very easily and also the maintenance can be done efficiently. The integrated menu functions ease the start-up and the calibration procedure. The complete product line can also be customised if required.

### Applications:

- HVAC process-control and -monitoring
- Paper and textile manufacturing and handling
- Controls and monitoring systems in labs and metrology rooms
- Monitoring of industrial combustion processes
- Storage and archive monitoring in museums and libraries
- Storage systems, cooling rooms etc. in food & pharmaceutical industry

### Transducer TempMaxx:

Dimension	: 110 x 118 x 50mm
Power supply	: 24 V DC ± 20%

### Outputs:

Analogue OUT	: 1 x U and I 0 or 2...10V DC 0 or 4...20 mA DC
Digital OUT	: 1 relay switch NO, NC max. 260 VAC / 2A (ohmic load)

### Temperature measurement:

Sensor connection : 2-, 3- or 4-wire

Sensor types	: PT 100 DIN 60751 PT 1'000 / Ni 1'000 AA, A, B, 1/3B, C NTC type Beta Therm
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HVAC and industry transducer system

## TempMaxx



**260 0284 TempMaxx**  
transducer  
for resistor  
temperature  
measurement sensors  
**without sensor**

### TempMaxx

Temperature transducer for resistor sensors

Temperature transducer with robust industrial design. 2-part plastic housing with catcher (no screws for lid needed).

The transducer is delivered **without** resistor sensors, which should be procured separately. Suitable for connection are all PT 100/1'000, Ni 1'000 and NTC resistor elements in various designs with 2-, 3- or 4-wire connection.

Optimal for climatic measurements or for monitoring and controls. Power supply 24VDC (no galvanic isolation), 1 analogue output (U and I in parallel) for temperature, freely scalable. Furthermore the transducer has 1 relay switch NO or NC with selectable threshold, hysteresis and delay on board.

The electrical cable insertion comes from the back side resp. bottom side. The instrument can be directly fixed to the wall using 4 screws. The large LCDisplay allows a reading from a big distances and several other menu functions such as sensor and output range selection, calibration and password protection complete this versatile transducer.

### Transducer TempMaxx :

Dimension : 110 x 118 x 50mm  
Sensor : 13 x 75 mm  
Weight : 220 g  
Power : 24 VDC  $\pm$  20%  
supply  
Output : 2 x analogue U/I  
0...10V / 2...10V  
0...20mA / 4...20mA

Possible measurement ranges:

sensors

-50...400 °C (PT 100/1'000)

-50...200 °C (Ni 1'000)

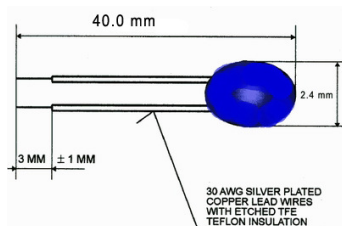
-20...80 °C (NTC Beta Therm)

Transducer operational temp.:  
0...50 °C

Units : °C or °F

Optional : factory calibration T

## Accessories



**260 0633 Beta Therm NTC**  
Sensor element singular

### NTC Thermistor

-20 ... +80 °C :

Cost efficient, accurate and very small NTC temperature sensor element for a direct 2-wire connection to the **TempMaxx**.

Pearl diameter : 2.4 mm

Material : glass

Resistivity at 25 °C : 30 k Ohm 30K5A

Connection : AWG 3 isolated

### NTC Beta Therm sensing element:

Pearl diameter : 2.4 mm

Length : 40.0 mm

Material : glass / CU

Quantity : 1 pc

Weight : 4 gr



**260 0634 PT 100 Duct sensor**  
1/3 DIN with 3m silicone cable

### PT 100 Cable duct sensor -50...+200 °C

Universally applicable air cable duct sensor for extended temperature range up to +200 °C.

Sensing element : PT 100 1/3 DIN

Casing : Immersion sleeve for gases & liquids, 6mm x 50mm sensor IP65

Connection : 2-wire technology, bared ending

### Duct Sensor PT 100 with cable:

Dimension : 6 x 50 mm VA4

Cable length : 3m silicone  
double isolated

Sensor : PT 100 1/3 DIN

Weight : 140 gr

Connection : 2-wire

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**260 0635 PT 100 Air sensor**  
1/3 DIN with 5m cable

### PT 100 Air-cable sensor -35...+105 °C

Fast responding air cable sensor for measurement of gases up to +105 °C.

Sensing element : PT 100 1/3 DIN

Casing : Steel protection sleeve VA4  
6mm x 50 mm with holes

Connection : 4-wire technology, bared ending

### Air sensor PT 100 with cable:

Dimension : 6 x 50 mm VA4

Cable length : 5m PVC  
double isolated

Sensor : PT 100 1/3 DIN

Weight : 130 gr

Connection : 4-wire



**260 0636** PT100 Air-duct sensor, 1/3 DIN, 4-wire

### PT 100 Air-duct sensor -30...+180 °C

Universally applicable gas duct sensor with duct probe length 150mm for temperature measurements in gaseous media in air ducts up to +180 °C.

Sensing element : PT 100 1/3 DIN  
Casing : Stainless steel probe VA4  
6mm x 150mm, IP 65 protection  
PVC housing for connection  
Connection : 4-wire technology with  
compression gland

#### Air-duct sensor PT 100:

Dimension : 6 x 150 mm VA4  
Housing : 60 x 80 x 39 mm  
Material : PVC M16 compression gland  
Sensor : PT 100 1/3 DIN  
Weight : 110 gr  
Connection : 4-wire



**260 0637** PT 1'000 Air-room sensor, 2-wire

### PT 1000 Air-room sensor -35...+70 °C

Shapely air sensor for temperature measurements in rooms applicable up to +70 °C, including white PVC housing.

Sensing element : PT 1'000  
Housing : PVC colour white, IP 20  
only for applications in non  
aggressive gases  
Connection : 2-wire technology, screwable

#### Air-room sensor PT 1'000 :

Dimension : 87 x 85 x 30 mm  
Material : ASA with ventilation slots  
Sensor : PT 1'000  
2-wire, 1.5 mm<sup>2</sup>  
Weight : 80 gr  
Connection : 2-wire

...Temperature sensors  
for TempMaxx

**Other temperature sensors on request**





## Options



**252 4210** power supply  
24V EUR

### External power supply 90...264VAC/EUR

External primary power supply, for voltage range 90 to 264 VAC with Euro plug system.

From the secondary side this power supply can be connected directly to all **TempMaxx** types.

#### Technical data:

**Primary side :**  
Voltage range: 90 ... 264VAC  
Euro plug

**Secondary side :**  
Voltage: 24V DC +/- 5%

Cable ends unshielded and ready for connection.

Weight: 90 gr



**252 4211** power supply  
24V US/JP

### Ext. power supply 90...264 VAC / US/JP

External primary power supply, for voltage range 90 to 264 VAC with US/Japan plug system.

From the secondary side this power supply can be connected directly to all **TempMaxx** types.

#### Technical data:

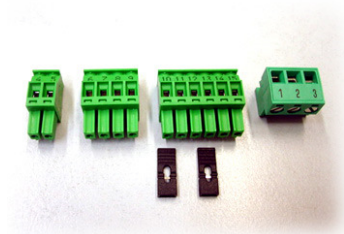
**Primary side :**  
Voltage range: 90 ... 264VAC  
US/JP plug

**Secondary side :**  
Voltage: 24V DC +/- 5%

Cable ends unshielded and ready for connection.

Weight: 90 gr

## Spare parts



**260 0303** Spare connector set  
TempMaxx

### Spare connector set to TempMaxx

Spare connector set for PCB to **TempMaxx** for power supply, sensor input, analogue output and alarm (set with 4 pcs).

Incl. 2 jumpers for switching from 2-, 3-, or 4-wire technology wiring.

Packed inside plastic bag.

#### Spare connector set to TempMaxx:

Connectors: 2 pin 3.84 mm Power  
4 pin 3.84 mm AOUT  
6 pin 3.84 mm SENS  
3 pin 5.08 mm ALA



**252 3135** housing bottom  
TempMaxx

### Housing lower half for TempMaxx

As spare part for damaged housings.

#### Spare housing bottom for TempMaxx :

Dimension : 110 x118 x 35 mm

Weight : 80 g

Material : PVC



# CIC-Touch

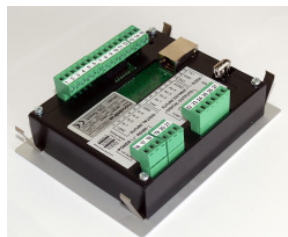
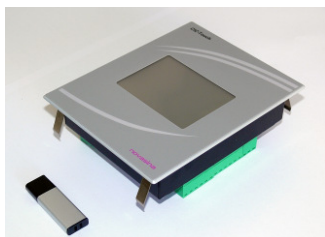


This multi display for clean room air parameters such as air humidity, temperature, differential pressure and particles allows to check at a glance the actual climatic parameters in clean rooms. The online data are provided by external sensors and/or contact relays. Besides the actual measurement value, which is shown with the respective unit (e.g. temperature, humidity etc.) and measurement location, also the backlight colour changes according to the actual status. Green colour for values within the threshold and red colour if the threshold is exceeded.

The CIC-Touch display can be easily mounted in clean room walls without the need of any screws. The unit can be placed in a wall cavity, snapped in and fixed with clips, which are part of the display unit itself. Thanks to the consequent clean room suitable design, the installation depth is very low and hence the unit fits in all current clean room walls. The smooth front panel complies with the demands of clean room design, is therefore ideal to be cleaned and has no edges subject to be polluted by dust or any dirt.

Another highlight of the CIC-Touch is the connectivity such as analogue/digital interfaces, contact relays, ethernet, USB, Modbus, RS-232, RS-485 and a SD card. The CIC-Touch can be easily connected to any external sensor and also integrated in existing monitoring systems. The configuration is performed via the intuitive operation and configuration menu.

The CIC-Touch can also be factory configured for specific OEM applications.



## Applications:

- Clean rooms
- Isolators
- Laminar flow benches
- Operating rooms
- Laboratories, calibration rooms
- Specific OEM solutions

## Industries:

- Semiconductor
- Pharmaceutical
- Hospitals
- OEM

## Your advantages:

- Semi-flush with the wall, no sharp edges, front panel only 2 mm thickness
- Easy to clean, flat and smooth surfaces
- Low installation depth and ideal for integration in all current clean room walls
- Snap-in mounting without any screws
- Display of up to 4 parameters at the same time
- Status display with status backlight colour
- Easy configuration by intuitive menu
- Several integrated communication interfaces



## CIC-Touch touchscreen display

Recommended ambient sensors to be connected:

### Air humidity and temperature:

- HygroDat 100 (this catalogue on page 21)
- HygroMaxx S/R/M (this catalogue on page 10)
- TempMaxx (this catalogue on page 17)

### Differential pressure:

- Pascal-ST/Z (dP catalogue on page 8)
- PascalMaxx (dP catalogue on page 12)

**Remark:** CIC-Touch is an universal display and any sensor can be connected, it can also be used for installation in existing sensor networks.





## Specifications:

Display:	graphical display 3,5" TFT display 70x52mm
Panel:	150 x 120 mm (H2O2 res.)
Mounting dimension:	H 127 x W 107 x D 50mm. incl. connectors
Power supply:	24 V AC/DC
Inputs:	4 x digital inputs 4 x analogue inputs
Outputs:	2 x relay contacts 230V
Digital interfaces:	ethernet Modbus (RS-485)
USB:	standard PC compatible





**260 0941** CIC-Touch display



## Product overview

Instrument	Parameter	Industry	Applications	Main features
<b>QuantaDat/nSens</b> 	RH/T	<ul style="list-style-type: none"> <li>Pharmaceutical</li> <li>Textile/Paper</li> <li>Chemical</li> <li>Medical</li> <li>Health Care</li> <li>Semiconductor</li> <li>Power Plants</li> <li>Building industry</li> <li>Food</li> <li>Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>Clean Rooms</li> <li>Operating rooms</li> <li>Combustion processes (gas turbines)</li> <li>Drying processes</li> <li>Meteorological stations</li> <li>Demanding HVAC controls</li> <li>Painting processes</li> <li>Food process and storage</li> <li>Green houses with high RH levels</li> <li>Mining and tunnel building</li> <li>Calibration labs</li> <li>Specific OEM applications</li> </ul>	<ul style="list-style-type: none"> <li>High accuracy</li> <li>Highest repeatability</li> <li>Low hysteresis</li> <li>Fast response time</li> <li>Climate parameter calculation</li> <li>2 scalable/adjustable analogue outputs</li> <li>RS-232 interface</li> <li>Fieldbus interface</li> <li>5 point RH calibration</li> <li>Sensor protection filters for aggressive air</li> <li>Password protection</li> </ul>
<b>HygroMaxx S/R/M</b> 	RH/T	<ul style="list-style-type: none"> <li>Building Industry</li> <li>Pharmaceutical</li> <li>Agriculture</li> <li>Medical</li> <li>Food</li> </ul>	<ul style="list-style-type: none"> <li>Generic HVAC installation</li> <li>Packaging industry</li> <li>Laboratories (food, pharma)</li> <li>Storages</li> <li>Archives, museums</li> <li>Printing processes</li> </ul>	<ul style="list-style-type: none"> <li>Good accuracy for HVAC applications</li> <li>Big clear display</li> <li>2 scalable analogue outputs</li> <li>Calibration at 3 points RH &amp; 1 point T</li> <li>Intuitive menu structure</li> <li>Easy to start-up and mounting</li> <li>3 models for room, duct and remote use</li> <li>Password protection</li> </ul>
<b>TempMaxx</b> 	T	<ul style="list-style-type: none"> <li>Building Industry</li> <li>Pharmaceutical</li> <li>Agriculture</li> <li>Medical</li> <li>Food</li> </ul>	<ul style="list-style-type: none"> <li>Generic HVAC installation</li> <li>Packaging industry</li> <li>Laboratories (food, pharma)</li> <li>Storages</li> <li>Archives, museums</li> <li>Printing processes</li> </ul>	<ul style="list-style-type: none"> <li>High flexibility in connections of external probes 2-, 3-, 4-wire (PT, Ni, NTC)</li> <li>Big clear display</li> <li>1 scalable analogue output</li> <li>1 relay contact</li> <li>Calibration at 2 points T</li> <li>Intuitive menu structure</li> <li>Easy to start-up and mounting</li> <li>Password protection</li> </ul>
<b>StatMaxx S/R/M</b> 	RH/T	<ul style="list-style-type: none"> <li>Building Industry</li> <li>Pharmaceutical</li> <li>Agriculture</li> <li>Medical</li> <li>Food</li> </ul>	<ul style="list-style-type: none"> <li>Generic HVAC installation</li> <li>Monitoring systems</li> <li>Packaging industry</li> <li>QA-laboratories</li> <li>Laboratories (food, pharma)</li> <li>Storages</li> <li>Archives, museums</li> <li>Printing processes</li> </ul>	<ul style="list-style-type: none"> <li>Good accuracy for HVAC applications</li> <li>Big clear display</li> <li>1 relay contact</li> <li>UMB Bus interface</li> <li>Calibration at 3 points RH &amp; 1 point T</li> <li>Intuitive menu structure</li> <li>Easy to start-up and mounting</li> <li>Password protection</li> </ul>



Instrument	Parameter	Industry	Applications	Main features
<b>HygroGuard 30</b> 	RH/T	<ul style="list-style-type: none"> <li>• HVAC</li> <li>• Pharmaceutical</li> <li>• Building Industry</li> <li>• Food</li> <li>• Hospitals</li> <li>• Semiconductor</li> <li>• Logistics</li> </ul>	<ul style="list-style-type: none"> <li>• Generic HVAC installation</li> <li>• QA-laboratories</li> <li>• Container shipping</li> <li>• Storages</li> <li>• Archives, museums</li> </ul>	<ul style="list-style-type: none"> <li>• Battery powered &gt; 1 year life time</li> <li>• Big clear LCDisplay</li> <li>• Big internal memory (3'200'000 data points)</li> <li>• Data storage and visualisation software included with data cable</li> <li>• USB power supply as option</li> <li>• Calculation of dew point / absolute humidity</li> </ul>
<b>DataLog 30</b> 	RH/T various	<ul style="list-style-type: none"> <li>• HVAC</li> <li>• Pharmaceutical</li> <li>• Building Industry</li> <li>• Food</li> <li>• Hospitals</li> <li>• Semiconductor</li> <li>• Logistics</li> </ul>	<ul style="list-style-type: none"> <li>• Generic HVAC installation</li> <li>• Monitoring systems</li> <li>• Packaging industry</li> <li>• QA-laboratories</li> <li>• Laboratories (food, pharma)</li> <li>• Storages</li> <li>• Archives</li> <li>• Museums</li> <li>• Printing processes</li> </ul>	<ul style="list-style-type: none"> <li>• Battery powered &gt; 1 year life time</li> <li>• Big clear LCDisplay</li> <li>• Big internal memory (3'200'000 data points)</li> <li>• Data storage and visualisation software included with data cable</li> <li>• 2 analogue interfaces (voltage/current)</li> <li>• 8 UMB bus interfaces</li> <li>• USB power supply as option</li> <li>• Calculation of dew point / absolute humidity</li> </ul>
<b>ClimaLog 30</b> 	RH/T/ absolute air pressure	<ul style="list-style-type: none"> <li>• HVAC</li> <li>• Pharmaceutical</li> <li>• Building Industry</li> <li>• Food</li> <li>• Hospitals</li> <li>• Semiconductor</li> <li>• Logistics</li> </ul>	<ul style="list-style-type: none"> <li>• Generic HVAC installation</li> <li>• QA-laboratories</li> <li>• Container shipping</li> <li>• Storages</li> <li>• Archives</li> <li>• Museums</li> </ul>	<ul style="list-style-type: none"> <li>• Battery powered &gt; 1 year life time</li> <li>• Big clear LCDisplay</li> <li>• Big internal memory (3'200'000 data points)</li> <li>• Data storage and visualization software included with data cable</li> <li>• USB power supply as option</li> <li>• Calculation of dew point / absolute humidity</li> </ul>
<b>CIC-Touch</b> 	Universal touchscreen display	<ul style="list-style-type: none"> <li>• Pharmaceutical</li> <li>• Semiconductor</li> <li>• Chemical</li> <li>• Medical</li> <li>• Health Care</li> <li>• Hospitals</li> </ul>	<ul style="list-style-type: none"> <li>• Clean rooms</li> <li>• Isolators</li> <li>• Laminar flow benches</li> <li>• Operating rooms</li> <li>• Laboratories, calibration rooms</li> <li>• Specific OEM solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Semi-flush mounting</li> <li>• Easy to clean</li> <li>• Low installation depth</li> <li>• Snap-in mounting</li> <li>• Display of up to 4 parameters</li> <li>• Status display with status backlight colour</li> <li>• Easy configuration</li> <li>• Several integrated communication interfaces</li> </ul>