



*General Catalogue AIR*

**2016**

**Air humidity and  
temperature  
measurement instruments**

*for*



**Heating**

**Ventilation**

**Air conditioning**

**Process control**



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Technical data subject to modification



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# Set *ClimMate*/nSens-HT

## Versatile multi parameter handheld device & data logger

The *ClimMate* is a new, versatile handheld device for detection and storage of various parameters such as air humidity, temperature, absolute pressure, air speed, volumetric flow rate, CO<sub>2</sub> as well as water activity and other calculated parameters.

The user gets a complete solution, which is based on the unique high precision Novasina humidity measuring technology and which can be easily extended. The modern state-of-the-art operation and display unit excels with a big, colour LCD touch screen, an easy and intuitive menu structure and logging function capability with up to 2 million data point storage. The *ClimMate* can be connected by an USB interface to a PC and for a data download, visualisation or export using the **SmartGraph III** software.

The device is powered by 4 pcs standard AA LR6 alkaline batteries or alternatively by an USB power supply unit.



LCD touch screen

<b>Technical data</b>	<i>ClimMate</i> handheld device (integrated pressure sensor)
<b>Power supply</b>	4 x 1.5VDC alkaline batteries or USB +5V power supply unit
<b>Power consumption</b>	in operation : approx. 400 mW, battery lifetime approx. 1 year 24h active, configurable Auto-Off function
<b>Technical data instrument</b>	Dimensions : 170 x 62 x 34 mm Weight : 205 gr Admissible altitude : 4000m above sea level
<b>Display</b>	Graphic display : TFT 240 x 320, 65k colours capacitive touch display, backlight (can be switched off) Possibility to display 2 decimal places
<b>Data storage</b>	2 million data points / 200 measuring packages, data download with <b>Smartgraph III</b> software incl. data export (e.g. to Excel)
<b>External probes</b>	connected by SDI / UMB-Bus interface absolute pressure, %RH/temperature, flow, CO <sub>2</sub>
<b>Included probes/sensors in the standard set</b>	- Integrated absolute pressure sensor 800...1100 mbar, accuracy @25°C : +/-0.5 mbar Factory calibration certificate (2 pressure points, 1 temp.) - nSens-HT: %RH/°C, specifications see separate table Factory calibration certificate (5 x RH, 2 x temperature)
<b>Accessories</b>	see operating manual & catalogue
<b>Protection class</b>	IP54
<b>Operating temperature handheld device</b>	0 to 50°C
<b>Storage temperature handheld device</b>	-20....+80°C



ClimMate-Set

The *ClimMate*-set contains the following parts :

- 1x **carrying case** for handheld device and probes
- 1x multifunction handheld operation and display device **ClimMate**
- 1x **USB-cable** 1.8m
- 4x **batteries** alkaline LR6 AA, 1,5V
- 1x **nSens-HT-ENS** probe incl. nLink-UMB adapter
- 1x nSens **cable extension** 2m
- 2x **humidity standards** Novasina **SAL-SC 33 & 75%RH** incl. certificates
- 1x **adapter** SAL-SC for nSens probes
- 1x **short operating manual**
- 2x factory calibration certificates (abs. pressure/re. humidity @ 1 temperature)
- 1 x **SmartGraph III** software on a CD



## nSens probes

Using the **nLink-UMB** adapter, various **nSens** probes can be connected to the **ClimMate** unit. The nSens probe range is continuously extended. But also probes and sensors from other suppliers can be used connecting them to the UMB-Bus interface.

All Novasina nSens probes are intelligent, means the calibration points are stored directly on-board. The probe verification and calibration is done with a PC using the **nSoft-CAL** software.



nSens-HT / nSens-T

Technical data	nSens-HT-ENS (rel. humidity & temperature probe) nSens-T-NBS (temperature probe)
<b>Dimensions</b>	Diameter 13 x Length 101 mm
<b>Measuring range</b>	Humidity 0 ... 100% RH Temperature -20 ... +80°C
<b>Measuring accuracy</b>	Humidity typical +/-0.5%...+/-2.5% RH Temperature typical +/- 0.1K...+/- 0.2K depending on measurement range
<b>Calibration points</b>	Humidity 13 points over full measurement range Temperature 2 points over full measurement range
<b>Digital output</b>	Novasina Bus-System
<b>Housing material</b>	PVDF black
<b>Sensor protection</b>	Polyethylene silver oxide filter, nCap-PS (for nSens-HT-ENS) Sensor protection, nCap-E (for nSens-T-NBS)
<b>Operating temperature</b>	-20 to +80°C
<b>Storage temperature</b>	-10...+60°C / 10...85% RH (non-condensing)



nLink-UMB

Technical data	nLink-UMB (interface module nSens/UMB-Bus)
<b>Function</b>	Digital conversion Novasina-Bus to UMB-Bus
<b>Dimensions</b>	Diameter 13 x Length 130 mm
<b>Connectors</b>	nSens : 3-pin : UMB : M12- 5-pin
<b>Housing material</b>	PVDF black
<b>Operating temperature</b>	-20...+80°C / 0...100% RH (non-condensing)
<b>Storage temperature</b>	-10 to +60°C / 0...100% RHF (non-condensing)

### Applications:

**Mobile and precise measurement and monitoring of various measurement parameters in the following industries:**

- Semiconductor-, MEMS-, pharmaceutical-, chemical industry
- Clean rooms, climatic chambers, mini environments etc.
- Paper- and textile production
- Laboratories, test benches
- Warehouses, archives, server rooms, libraries, museums etc.
- Building and HVAC management, control and service and many more...



## Set handheld ClimMate & nSens-HT

### Set ClimMate with nSens-HT probe



Consisting of:

- Multifunction handheld instrument *ClimMate*
- nSens-HT-ENS probe incl. nLink-UMB adapter
- USB cable, length 1.8m
- nSens extension cable, length 2m
- 4 alkaline batteries LR6 AA, 1,5V
- Humidity references SAL-SC 33% & 75%RH
- Adapter SAL-SC for nSens probes
- Factory calibration certificates
- Short instruction manual
- Carrying case for instrument, sensors and accessories
- SmartGraph III software on CD

Dimensions:	Carrying case 510x430x150mm
Total weight :	3'500 gr
Instrument :	
• Dimensions :	170 x 62 x 34mm (ClimMate)
• Weight:	205 gr (ClimMate)
• nSens-HT incl. nLink-UMB	
Length	170mm x Ø 13mm
• Absolute pressure sensor integrated	
Measurement range	800....1'100 mbar

**260 1154** ClimMate-Set

## Accessories



### 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.

Probe delivered in a separate package.

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 1172** nSens-T-NBS  
(additional option)



### 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 extension cable

With 2 plug-in connectors

- 1 connector for nSens probe
- 1 connector for nLink-UMB adapter

Cable length:	2 or 5m
Connector dimensions:	1x L52mm x Ø15.8mm (nSens probe side) 1x L57mm x Ø16mm (nLink-UMB side)
Temperature range:	-20....+80°C

**260 1201** nSens extension cable, 2m  
(3°0.23mm<sup>2</sup> - not halogen free)

**260 1136** nSens extension cable, 5m  
(3°0.5mm<sup>2</sup> - halogen free)



**260 1094** nSoft-CAL Software

### 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



- 260 0978** -> SAL-SC 6
- 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

### Humidity generators SAL-SC (with factory calibration 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 SC are obtainable for the following values (at 25°C) :

6.4 % rh	
11.3 % rh	75.3 % rh
32.8 % rh	84.3 % rh
52.9 % rh	90.1 % rh
57.6 % rh	97.3 % rh

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:

6.9	.....	6.2%	rh / 15...30°C
11.3	.....	11.3%	rh / 15...30°C
33.3	.....	32.4%	rh / 15...30°C
55.9	.....	51.4%	rh / 15...30°C
60.7	.....	56.0%	rh / 15...30°C
75.6	.....	75.1%	rh / 15...30°C
85.9	.....	83.6%	rh / 15...30°C
90.9	.....	89.9%	rh / 15...30°C
97.9	.....	97.0%	rh / 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
- 260 1275** -> SAL-SC 97 C

### Humidity generators SAL-SC (with accreditation and included 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
90.1 % rh
97.3 % 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** Case with 5xSAL-SC
- 252 5415** Case set with 3x SAL-SC
- 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 (3 items set)
- SAL-SC 33 (3 items set)
- SAL-SC 53
- SAL-SC 75 (3 items set)
- 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%	rh / 15...30°C
33.3	.....	32.4%	rh / 15...30°C
55.9	.....	51.4%	rh / 15...30°C
75.6	.....	75.1%	rh / 15...30°C
90.9	.....	89.9%	rh / 15...30°C

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

Weight : 700 g



- 260 1143** Adapter SAL-SC / nSens
- 260 1036** Adapter SAL-SC / TFF 20

### Adapter SAL-SC

- for nSens probes
- for TFF 20 capacitive probes (PN 260 1215)

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

With integrated rubber sealing ring.

Dimension : Out diam.30/In.diam 13 mm (nSens)  
Out diam.30/in.diam 12 mm (TFF 20)

Weight : 5 g

Material : Thermoplastic resin



**260 0872** USB power supply

### USB power supply

Power supply with USB socket for *ClimMate*. If powered by this power supply, the internal AA batteries are only for backup in case of a power failure.

**1,8m USB cable already included in *ClimMate* set**

Dimensions: 55x25x80 mm

Weight: 50 g

Input power : 100...260V AC 50/60 Hz  
Output power : +5V DC USB  
1200mA / 6W

Housing: plastic ABS / IP40



**260 1215** Digital capacitive probe TFF 20

### Digital capacitive humidity/temp. probe

Robust calibrated humidity/temperature probe with digital UMB interface for direct connection to „*ClimMate*“.

#### Remark:

This probe type does not require an nLink-UMB adapter. SAL-SC humidity standard adapter ring PN 260 1036.

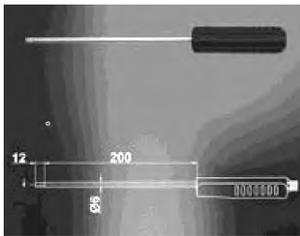
Dimensions : Length 80mm x Ø 12mm

Meas range : 0...100 %RH / -40...+80°C

Accuracy : +/-2.0% RH (0..90%)

+/- 3.0% RH (90...100%)  
+/-0.2°K

Connector : M12 with screw ring



**260 1218** SDI airflow probe 0...2m/s

### SDI airflow & temperature probe

e.g. for clean room applications (range 0...2m/s)

Digital airflow probe with thermic heating element measuring principle. With robust thin-film sensor. The flow direction has a considerable influence on the measurement accuracy (vector).

**The probe was calibrated for very low airflows in specific airflow tunnels.**

Dimension housing: 117 x 38 mm

Dimension probe: 200mm x Ø 6mm

Weight: approx. 200 gr

Temp. range: 0...50°C / 0...95%RH

Meas. range : 0...2.0 m/s

Accuracy: +/-0.08m/s

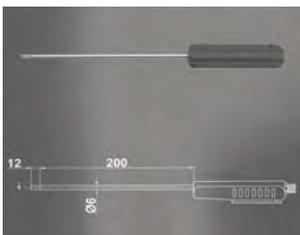
+1% of meas.value

Resolution: 0.01m/s

Temperature: -20...70°C

Accuracy: +/-0.7°C / 0...50°C

Connector: M12 with screw ring including 2m cable



**260 1220** SDI airflow probe 0...20m/s

### SDI thermic airflow probe

e.g. for HVAC applications (range 0...20m/s)

Digital airflow probe with thermic heating element measuring principle. With robust thin-film sensor. The flow direction has a considerable influence on the measurement accuracy (vector).

**The probe was calibrated for very low airflows in specific airflow tunnels.**

Dimension housing: 117 x 38 mm

Dimension probe: 200mm x Ø 6mm

Weight: approx. 200 gr

Temp. range: 0...50°C / 0...95%RH

Meas. range : 0...20.0 m/s

Accuracy: +/-0.2 m/s

+2% of meas.value

Resolution: 0.01m/s

Temperature: -20...70°C

Accuracy: +/-0.7°C / 0...50°C

Connector: M12 with screw ring including 2m cable



**260 1222** CO<sub>2</sub>- probe with M12 connector

### Digital CO<sub>2</sub> probe

for maintenance and monitoring

This digital state-of-the-art CO<sub>2</sub> probe has been developed specifically for mobile devices and has a extremely low power consumption. The probe incorporates the dual wavelength NDIR CO<sub>2</sub> sensor, which compensates for ageing effects, is highly insensitive to pollution and stands for outstanding long term stability

Indication values of CO<sub>2</sub> concentrations:

- ~ 40.000ppm Part of human exhaust breath (20l CO<sub>2</sub>/h)
- ~ 5.000ppm Limit of CO<sub>2</sub> concentration at workplace
- > 1.000ppm Fatigue and lack of concentration become noticeable
- ~ 1.000ppm Recommended limit for room air
- ~ 400ppm Fresh air

Dimensions: 96 x Ø 18.5 mm

allowed temp.: -40...60°C

allowed RH : 0..100%RH

(non condensing)

allowed atm press.: 850...1100hPa

Meas. range: 0...5000 ppm

Accuracy: at 25°C & 1013 mbar

<+/-50ppm +3% of measured value

Protection: IP65

Connector : M12 with screw ring



**111 8957** Protection bag

### Protection bag

Robust protection bag for storage and transportation of handheld device, probe and humidity calibration references SAL-SC. The bag can be carried on the shoulder or fixed to the belt. A Velcro fastener avoids the instrument to fall out of the bag.

Dimension : 250 x 200 x 40mm  
Weight : 185 g (empty)  
Material : fabrics cushioned,  
2 lateral pockets for  
2 pcs SAL-SC

## Spare parts



**260 1206** -> replacement instr.

### Replacement instrument *ClimMate*

Operation and display unit without probe and accessories for „*ClimMate*“ set.  
With capacitive Touch-LCD 320 x 240 dot display.  
Power supply by USB or 4 x alkaline batteries 1,5V AA LR6.

Robust housing made of ABS.

Delivered including batteries, USB cable, operating manual, factory calibration certificate and protection bag.

Dimension: 170 x 62 x 34 mm  
Weight : approx.. 205 gr  
TFT Display 54 x 41 mm illuminated with touch surface  
With integrated absolute pressure sensor :  
800...1100mBar  
(incl. factory calibration certificate)  
max. elevation : 4'000m above sea level  
Only available as single device including protection bag



**260 1171** nSens-HT-ENS (NEW)  
**260 1166** nSens-HT-ENS (RE-NEWED)

### nSens-HT-ENS probe (New / Renewed)

Replacement probes can be ordered as new or renewed version.

#### Important:

The renewed probe is only **delivered in a replacement mode** and can only be ordered if the old probe is returned to Novasina.

Probes delivered in a separate package.

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 points at 1 temperature  
resp. 2 temperature points incl. certificate  
Verification & Calibration: with nSoft-CAL software



**260 1063** nLink-UMB

### nLink-UMB adapter for nSens probe

Conversion adapter from nSens probe to ClimMate UMB-Bus connector.

#### Important :

Each nSens probe requires a nLink-UMB adapter to be connected to the ClimMate.

Dimension : 20 x 60 mm  
Weight : approx.. 30 g  
Connector : 5 pole screwed for UMB-Bus side and 3 pole for nSens-HT side



**260 1224** Spare carrying case

### Spare carrying case for *ClimMate* set

Empty carrying case for *ClimMate* with foam material inserts for probes, SAL-SC humidity standards and extension cable.

#### Remark :

Carrying case has no key or combination lock

Dimension: 510x430x150mm  
Weight : 3'000 gr (empty)  
Material :  
• Edges in aluminium  
• Metal parts surface plated  
• Flake board outer surfaces  
• Foam material insert



[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



[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 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





# 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-RL
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	Interface provided 2 relay contacts (for version QuantaDat-RL)
Housing material	ABS - lid blue RAL 5014, bottom grey RAL 7035
Protection class	IP54
Working temperature	0 to 50°C



nSens-HT-ENS



nSens-T-NBS

## 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 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	

## 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



**260 1087** QuantaDat  
**260 1161** QuantaDat-RL  
(with relay)

### QuantaDat / QuantaDat-RL

Multisensor capable transmitter system 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 100m.

Dimension:	W150xH165xD54mm
Power supply:	24V +/- 15% AC/DC
Power consumption:	max. 3 W DC max. 3.0 W
Outputs:	4 x analogue U/I 0...10V / 2...10V 0...20mA / 4...20mA 1 digital interface
Version:	QuantaDat-RL 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

## nSens-xx Probes & Simulators



**260 1171** nSens-HT-ENS

### nSens-HT-ENS probe (with factory calibration certificate)

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 at 1 temperature incl. certificate
Verification & Calibration:	with nSoft-CAL software



**260 1172** nSens-T-NBS

### nSens-T-NBS probe (with factory calibration certificate)

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 1126** nSens-VAL-HT

### 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
Value setting:	with nSoft-CAL software



**260 1166** nSens-HT-ENS  
(renewed)

### nSens-HT-ENS renewed probe (with factory calibration certificate)

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

**Important:**

This probe is only **delivered in a replacement mode** and can only be ordered if the old probe is returned to Novasina.

Remark:

The measurement quality corresponds to a 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 at 1 temperature incl. certificate
Verification & Calibration:	with nSoft-CAL software

## nSens cable systems



- 260 1080** nSens-cable 5m
- 260 1079** nSens-cable 10m
- 260 1078** nSens-cable 30m
- 260 1225** nSens-cable 60m
- 260 1226** nSens-cable 100m

### nSens cable (for QuantaDat wiring)

Cable 3\*0.5mm<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.

**Remark:**

The cables are delivered including the mounting material for probe fixation to wall or to ducts (Part no. 260 1083)

Cable lengths:	5 / 10 / 30 / 60 / 100m
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 1136** nSens cable extension 5m

### nSens-cable extension

Cable 3\*0.5mm<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

## nSoft-CAL calibration kit



**260 1094** nSoft-CAL Software

### 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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## Accessories and Spare parts



- [260 0978](#) -> SAL-SC 6
- [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

### Humidity generators SAL-SC (with factory calibration 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 SC are obtainable for the following values (at 25°C) :

6.4 % rh	
11.3 % rh	75.3 % rh
32.8 % rh	84.3 % rh
52.9 % rh	90.1 % rh
57.6 % rh	97.3 % rh

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:

6.9	.....	6.2%	rh / 15...30°C
11.3	.....	11.3%	rh / 15...30°C
33.3	.....	32.4%	rh / 15...30°C
55.9	.....	51.4%	rh / 15...30°C
60.7	.....	56.0%	rh / 15...30°C
75.6	.....	75.1%	rh / 15...30°C
85.9	.....	83.6%	rh / 15...30°C
90.9	.....	89.9%	rh / 15...30°C
97.9	.....	97.0%	rh / 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
- [260 1275](#) -> SAL-SC 97 C

### Humidity generators SAL-SC (with accreditation and included 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
90.1 % rh
97.3 % 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 75
- SAL-SC 33 - SAL-SC 90
- SAL-SC 53
- Factory calibration certificates of SAL-SC
- 2 adapters for Novasina probes

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

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

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

Weight : 700 g



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

### Adapter SAL-SC for nSens-HT 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

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 ... 264VAC  
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 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 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



**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



**260 1152** Mounting kit with spacer

### 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 1165** Mounting kit

### 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 1173** Housing bottom

### 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 1178** Connector set

### QuantaDat connector 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



## nSens for BUS networks

This adapter system allows a protocol transformation and hence nSens probes can be easily integrated in new and existing bus networks (Modbus). The operator benefits from a simple and fast integration in combination with the high measurement accuracy and linearity of the nSens sensors. This solution offers a cost efficient alternative to the use of transmitter systems with analogue output signals.



### Applications:

- Clean rooms
- Isolators
- Operating theaters
- Labs, calibration rooms

### Industries:

- Pharmaceutical
- Life Science
- Semiconductor
- Hospitals
- Pharmacies etc.

### Your advantages:

- Fully integration of measurement points in the network
- Reliable digital signal transmission
- Simple to install thank to small dimensions
- Probe can be replaced fast and easy thanks to the with connection system
- High measurement accuracy and linearity
- Cost efficient and flexible solution
- Simple and fast to verify and calibrate the measuring probes

## nSens network solutions

for direct integration in a Modbus network



### nSens-HT-ENS and nSens-T-NBS probe

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

Digital **nSens-T temperature** probe with high quality NTC temperature sensing element and 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.

Probes delivered in a separate package.

Dimensions:	L101mm x Ø 13mm Detailed information can be found in the technical data sheet.
Communication:	digital by Bus-system
Fact. calibration: (nSens-T)	at 2 temperature points incl. certificate
Fact. calibration: (nSens-HT)	at 5 humidity points incl. certificate
Verification & Calibration:	with nSoft-CAL software

[260 1171](#) nSens-HT-ENS  
[260 1172](#) nSens-T-NBS



[260 1095](#) nLink-Modbus adapter

### nLink-Modbus adapter for nSens (HT/T)

Signal conversion adapter from nSens probes to Modbus.

Remark: each nSens probe requires 1 nLink-Modbus for connection.

Dimensions:	20 x 60 mm
Weight:	approx. 30 g
Connector:	5 pole screwed for Modbus and 3 pole for nSens



[260 1135](#) Bus cable length 2m

### Modbus-cable - length 2m

For connection of a nLink-Modbus adapter to a Modbus network

- Adapter-side with M12/4 connector
- Network-side with open cable head

Cable length:	2m
Weight:	approx. 100 g
Connector:	M12 / 4 respectively open cable head





# HygroGuard 30/ClimaLog30/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:

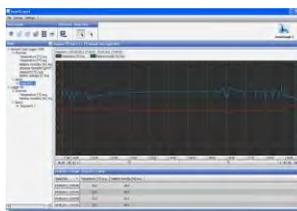
**HygroGuard 30** with internal sensors for **humidity and temperature**

**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



	<b>Model</b>		
	<b>HygroGuard 30</b>	<b>ClimaLog 30</b>	<b>DataLog 30</b>
<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

**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

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



## HygroGuard 30 / CimaLog 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
- 1,8m 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
- 1,8m 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
- 1,8m 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 ...1200 mbar



**260 0872**  
USB power supply

### USB power supply

Power supply with USB socket to power HygroGuard 30 ClimaLog 30 or DataLog 30. If powered by this unit, the internal AA batteries are only for backup and in case of a power failure.

**1,8m USB cable already included in data logger package**

Remark: internal alkaline batteries cannot be charged

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 to DataLog 30

for DataLog 30 monitoring systems



**260 0840 StatMaxx S**

### StatMaxx S (for wall mounting)

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 ± 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 (for duct mounting)

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 not included (see accessories)

Dimensions: 110 x 118 x 50mm

Probe: diameter 13 x 250 mm

Weight: 240 g

Power supply: 24 VDC ± 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 (for external sensor mounting)

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 ± 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 1230** Theft protection

**Theft protection kit (with lock)**  
for HygroGuard 30, ClimaLog 30, DataLog 30

For all loggers. Can also be used as robust and safe wall mounting kit.

Kit made of massive metal and can be secured with padlock.

Dimension: 130 x 120 x 5mm  
Weight: approx. 350 g  
Accessories: - screws/dowels  
- fixation plates  
- Padlock with key



**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

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



**260 1171** nSens-HT-ENS  
**260 1172** nSens-T-NBS

**nSens-HT-ENS and nSens-T-NBS probe**

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

Digital **nSens-T temperature** probe with high quality NTC temperature sensing element and 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.

Probes delivered in a separate package.

Dimensions: 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 (nSens-T)  
Fact. calibration: at 5 humidity points incl. certificate (nSens-HT)  
Verification & Calibration: with nSoft-CAL software



**260 1063** nLink-UMB  
for DataLog 30

**nLink-UMB adapter for nSens-HT/nSens-T**

Conversion adapter from nSens probe to DataLog 30.

Up to 4 nSens probes with 1 nLink-UMB each can be connected to a DataLog 30 device.

Remark:

Each nSens requires 1 nLink-UMB to be connected

Dimension : 20 x 60 mm  
Weight : approx.. 30 g  
Connector : 5 pole screwed for UMB-Bus side and 3 pole for nSens-HT side



### Bus cable

Sensor-/actuator-cable, 4-pole, PUR, grey-black RAL 7021, straight connector M12, A-coded, on straight connector M12, A-coded

Cable length: 10m respectively 2m.

**260 1198** Length 10m  
**260 1276** Length 2m

Cable lengths:	2m resp. 10m
Weight:	approx. 570 g (10m) approx. 120 g (2m)
Connector:	M12 / 4 pole A-Standard
UMB-Bus length:	max. 150 m



### Y-junction

5-pole, connector straight M12 screw connections, A-coded, on straight connector M12, A-coded and straight connector M12, A-coded, parallel junction

**260 1281** Y-junction

Dimensions:	50,1 x 35,6 mm
Weight:	approx. 25 g
Connectors:	M12, A-coded



### T-junction

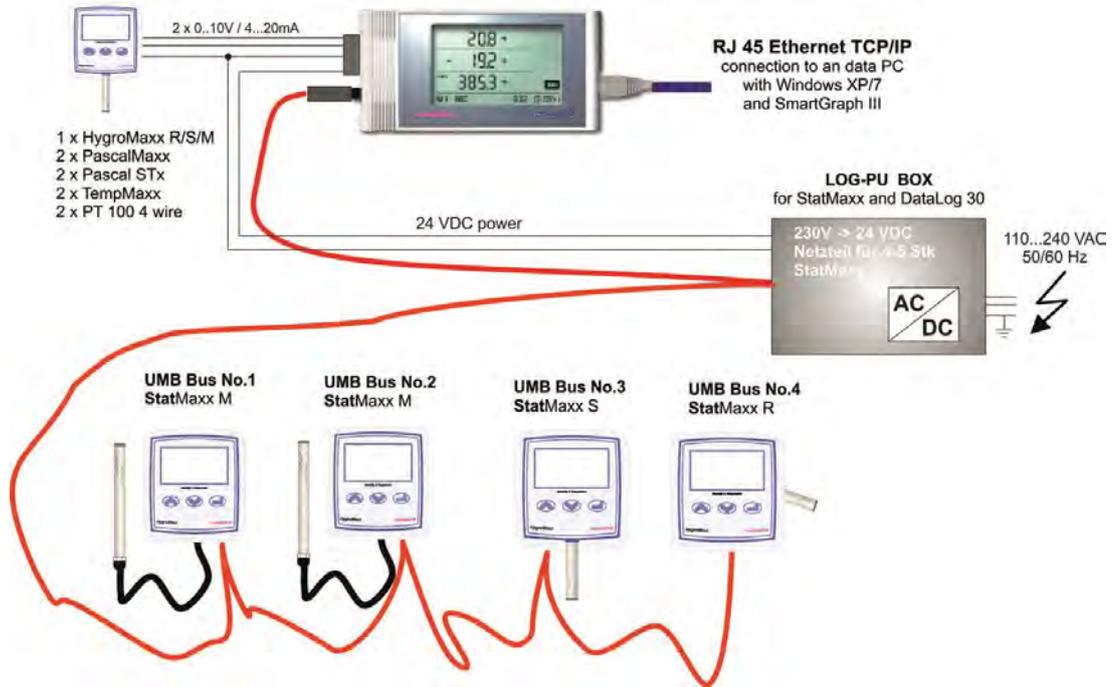
5-pole, connector straight M12 screw connections, A-coded, on straight connector M12, A-coded and straight connector M12, A-coded, parallel junction

**260 1282** T-junction

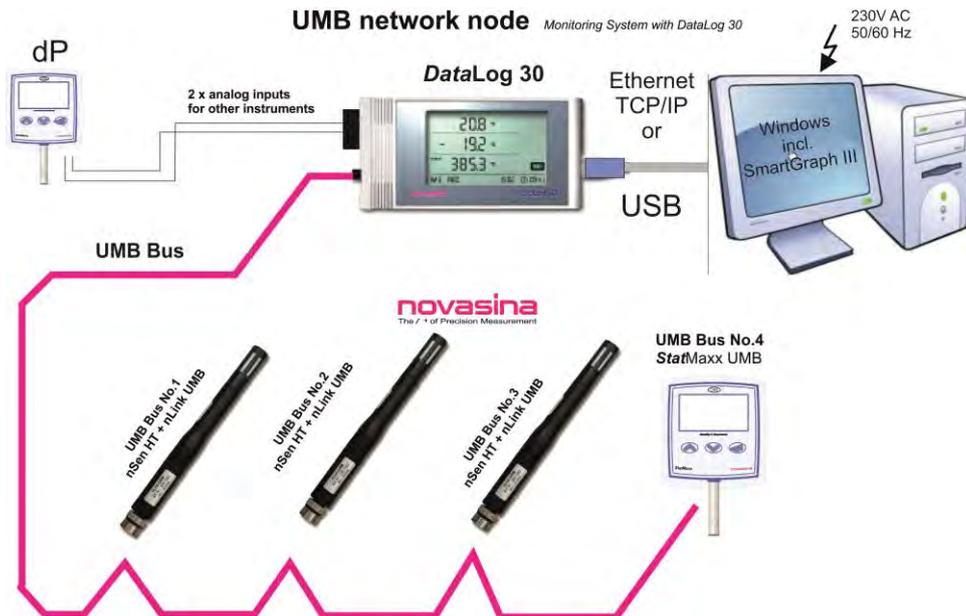
Dimensions:	55,8 x 32,5 mm
Weight:	approx. 20 g
Connectors:	M12, A-coded



### Installation example 1 (StatMaxx / PascalMaxx)



### Installation example 2 (nSens-HT with nLink-UMB)





# 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>	: 2x 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 ¼, 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



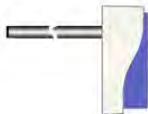
**252 3054** HygroMaxx S

### HygroMaxx S (for wall mounting)

*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.

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 (for duct mounting)

*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.

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 (for external sensor mounting)

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.

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 ( <i>sensor</i> ) 0...50°C ( <i>transmitter</i> )
<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 ( <i>Universal Measurement Bus</i> )
<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 ¼, 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 (for wall mounting)

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 (for duct mounting)

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 (for external sensor mounting)

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

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.

Material : polycarbonate

Quantity : 2 pcs

Weight : 15 g



- 260 0978** -> SAL-SC 6
- 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

### Humidity generators SAL-SC (with factory calibration 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 SC are obtainable for the following values (at 25°C) :

6.4 % rh	
11.3 % rh	75.3 % rh
32.8 % rh	84.3 % rh
52.9 % rh	90.1 % rh
57.6 % rh	97.3 % rh

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:

6.9	.....	6.2%	rh / 15...30°C
11.3	.....	11.3%	rh / 15...30°C
33.3	.....	32.4%	rh / 15...30°C
55.9	.....	51.4%	rh / 15...30°C
60.7	.....	56.0%	rh / 15...30°C
75.6	.....	75.1%	rh / 15...30°C
85.9	.....	83.6%	rh / 15...30°C
90.9	.....	89.9%	rh / 15...30°C
97.9	.....	97.0%	rh / 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
- 260 1275** -> SAL-SC 97 C

### Humidity generators SAL-SC (with accreditation and included 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
90.1 % rh
97.3 % 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%	rh / 15...30°C
33.3	.....	32.4%	rh / 15...30°C
55.9	.....	51.4%	rh / 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 : 700 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.

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

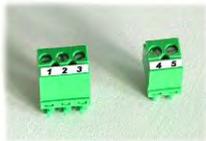
A styrofoam box providing optimal insulation and temperature stabilisation of a SAL-SC check during the calibration procedure. Consisting of two half-covers for simple temporary mounting.

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

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 !

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

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

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

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

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

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.

Dimension : 110 x118 x 35 mm  
Weight : 80 g  
Material : PVC

## Options

HygroMaxx & StatMaxx



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

### External power supply

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.

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 LCDisplay 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 LCDisplay.

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



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 :

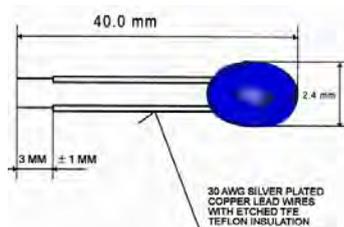
Dimension : 110 x 118 x 50mm  
Sensor : 13 x 75 mm  
Weight : 220 g  
Power : 24 VDC  $\pm$  20%  
supply  
Output : 2 x analogue U/I  
0...10V / 2...10V  
0...20mA / 4...20mA

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



**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



### External power supply

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 4210](#) power supply EU/US/JP

## Spare parts



### 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

[260 0303](#) Spare connector set  
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

[252 3135](#) housing bottom  
TempMaxx



# CIC-Touch

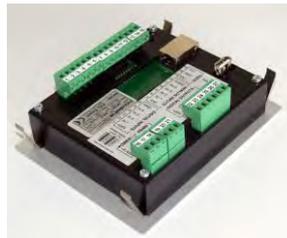
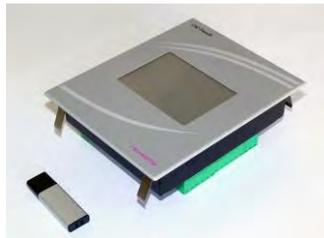


This multi display for clean room air parameters such as air humidity, temperature, differential pressure and particles allows to check at a glance the actual climatic parameters in clean rooms. The online data are provided by external sensors and/or contact relays. Besides the actual measurement value, 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
 <p><b>QuantaDat/nSens</b></p>	<p>Rel. humidity Temperature and calculated climatic parameters</p> <p>Output: Digital +4 AO Current/Voltage</p>	<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>• Multisensor technology</li> <li>• High accuracy</li> <li>• Highest repeatability</li> <li>• Low hysteresis</li> <li>• Linear response time</li> <li>• Intelligent probes</li> <li>• Climate parameter calculation</li> <li>• 4 scalable/adjustable analogue outputs</li> <li>• RS-485 interface</li> <li>• Sensor protection filter</li> <li>• Password protection</li> </ul>
 <p><b>HygroMaxx S/R/M</b></p>	<p>Rel. humidity Temperature</p> <p>Output: +2 AO Current/Voltage</p>	<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>
 <p><b>TempMaxx</b></p>	<p>Temperature PT 100 PT 1000 Ni 1000 NTC</p> <p>Output: 1 x relay 1 x AO Current/Voltage</p>	<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>
 <p><b>StatMaxx S/R/M</b></p>	<p>Rel. humidity Temperature</p> <p>Output: 1xdigital Bus 1 x relay</p>	<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>ClimMate</b> (handheld device) 	Rel. humidity Temperature Dew point Enthalpy Flow Atm. press. CO2 Air speed and more...	<ul style="list-style-type: none"> <li>• Buildings</li> <li>• HVAC</li> <li>• Pharmaceutical</li> <li>• Food</li> <li>• Hospitals</li> <li>• Semiconductors</li> <li>• Logistics, storage</li> <li>• Archives</li> </ul>	<ul style="list-style-type: none"> <li>• HVAC installations</li> <li>• HVAC maintenance</li> <li>• QA laboratories</li> <li>• Storage climate control</li> <li>• Archives, museums</li> <li>• On site monitoring and data logging</li> <li>• Reports &amp; documentation</li> </ul>	<ul style="list-style-type: none"> <li>• Battery powered &gt;1 year</li> <li>• Colour touch-screen</li> <li>• Internal memory (2 million data points)</li> <li>• Data storage and visualisation software with included data cable</li> <li>• USB power supply as option</li> <li>• Multifunction sensor interface</li> </ul>
<b>HygroGuard 30</b> 	Rel. humidity Temperature Abs.hum.  Battery status	<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> <li>• On site monitoring and data logging</li> <li>• Reports &amp; documentation</li> </ul>	<ul style="list-style-type: none"> <li>• Battery powered &gt;1 year</li> <li>• Big clear LCDisplay</li> <li>• Internal memory (3'200'000 data points)</li> <li>• Data storage and visualisation software with included data cable</li> <li>• USB power supply as option</li> <li>• Calculation of dew point / absolute humidity</li> </ul>
<b>DataLog 30</b> 	Rel. humidity Temperature  and more..  Battery status	<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> 	Rel. humidity Temperature Abs.hum. Abs. press.  Battery status	<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> <li>• On site monitoring and data logging</li> <li>• Reports &amp; documentation</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  for clean room wall installation	<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>