Catalogue Climate 2020
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ClimMate Handheld meter

The hi-tech solution in pocket size with unique measurement technology...

...for calibration, adjustments and service in the food and pharmaceutical industry, logistics, etc.

Display and recording of humidity, temperature, Absolute Pressure, Air Velocity, CO2, Water Activity and other climate metrics.

The modern operating and display unit features a large, colour LCD touch screen, simple operation and integrated logging function. The logger data can be easily transferred to the PC for further processing and evaluation using the supplied USB cable and software.

Unique, electrolytic moisture measurement
• especially suitable for environments with high and low air humidity
• reliable and drift-free measurements even in polluted air (ammonia, H2O2 etc.)
• high measuring accuracy and speed
• quickly exchangeable and calibrated

Included in the complete set:
• nSens-HT-ENS Humidity/Temperature probe
• 5-point calibration certificate
• 2 reusable humidity standards
• Display and control unit with LCD touch screen
• 1x Multifunctional operating and display unit ClimMate
• 1x Adapter SAL-SC for nSens probe
• 1x short instruction manual
• 1 x SmartGraph III software on CD
• 1x USB connection cable 1.8m
ClimMate Set (Sal-SC 33+75%)
260 1154
ClimMate Set II (Sal-SC 75 + 97%)
260 1636
ClimMate Set III (without SAL-SC)
260 1847

Complete set in case incl:
- Multifunctional measuring device ClimMate
- nSens-HT-ENS probe with factory certificate
- 2 Humidity standards
- USB connection cable 1.8m
- nSens cable extension 2m
- 4x Batteries Alkaline LR6 AA, 1.5V
- Transport case for instrument and sensors
- SmartGraph III Software

Technical data:
- Dimension: 450x360x105mm
- ClimMate: 170 x 62 x 34mm
- Total weight: 2'100 g
- Sens-HT incl. nLink-UMB
  - Length: 170mm x Ø 13mm
- Absolute pressure sensor built-in
  - 800…1'100 mbar

Optional sensor

nSens-HT-ENS
260 1171

Electrolytic measurement technology for highest demands. Included as standard in the ClimMate set.

Digital humidity & temperature sensor with electrolytic humidity sensor & NTC temperature measurement.
With nCap-PS protective filter cap.

The adjustment points are stored directly in the sensor. The sensor is pluggable and can be exchanged very quickly and easily.

Separate calibration/adjustment kit with software available.

Technical data:
- Dimension: L101mm x Ø 13mm
- Accuracy / Measuring range:
  - Humidity: +/-0.5%
  - Temperature: +20°...+80°C
- Communication: digital via nBus
- Factory calibration: at 6 humidity points and 1 temperature point incl. calibration certificate

nSens-T-NBS
260 1172

Digital temperature sensor incl. factory certificate

Digital temperature probe with NTC temperature measuring element.

The adjustment points are stored directly in the sensor. The sensor is pluggable and can be exchanged very quickly and easily.

Separate calibration/adjustment kit with software available.

Technical data:
- Dimension: L101mm x Ø 13mm
- Accuracy: +/-0.1K
- Measuring range: -20°...+80°C
- Communication: digital via nBus
- Factory calibration: at 2 temperature points incl. calibration certificate
- Adjustment: using nSoft-CAL software

Flow / temperature sensor
0.08...2.0m/sec
260 1218

Digital air flow sensor based on the „hot-film anemometer” principle with thin-film sensor. Robust against contamination. The flow direction has a significant influence on the measuring accuracy (vector).

The sensor was optimized in special flow channels for lowest air velocities!

This sensor can only be used with the ClimMate.

Technical data:
- Housing: 117 x 38 mm
- Probe dimension: 200mm x 6mm
- Weight: approx. 20 gr
- Permissible temp./humidity: 0...50°C / 0...95%rh
- Measuring range: 0...2.0 m/s
- M-accuracy: +/-0.08m/s +/-1% of measured value
- Resolution: 0.01m/s
- Temperature: -20...+70°C
- Accuracy: +/-0.7°C / 0...+50°C
- Connection: M12 thread with 2 meter cable

Flow / temperature sensor
0...20 m/sec
260 1220

Digital air flow sensor based on the „hot-film anemometer” principle with thin-film sensor. Robust against contamination. The flow direction has a significant influence on the measuring accuracy (vector).

This sensor can only be used with the ClimMate.

Technical data:
- Housing: 117 x 38 mm
- Probe dimension: 200mm x 6mm
- Weight: approx. 20 gr
- Permissible temp./humidity: 0...50°C / 0...95%rh
- Measuring range: 0...20 m/s
- M-accuracy: +/-0.2m/s 2% of measured value
- Resolution: 0.01m/s
- Temperature: -20...+70°C
- Accuracy: +/-0.7°C / 0...+50°C
- Connection: M12 thread with 2 meter cable
Digital CO2 sensor

Calibrated at several points over the entire temperature range.

This sensor can only be used with the ClimMate.

Technical data:
- Dimensions: 96 x 18.5 mm
- Measuring range: 0...5000 ppm
- Accuracy: +/-50ppm +3% of the at 25°C & 1013mbar
- Temperature: -40...+60°C
- Plug: M12 thread

Spare parts and accessories

nSens Cabel-2m

With 2 quick couplings (plug and socket) for nSens-xx Bus.
- 1 plug to nSens-HT / nSens-T sensor
- 1 plug to nLink-UMB adapter

nSens cable 2m: cable 3*0.23mm²
nSens cable 5m: cable 3*0.5mm²

Technical data:
- Cable length: 2 or 5m dimension
- Cable connector: 1x L52mmxØ15.8mm
- Temperature range: -20...+80°C
- Properties: see nSens cable

nSens Cabel-5m

nSoft-CAL Software

Software for calibration and adjustment of nSens probes on the PC. Runs on Windows 98/2000/XP/Vista/Windows 7, 8 and 10.
- nSoft-CAL software on CD incl. driver
- User manual as PDF on CD
- nLink-USB Connection cable to PC for all nSens probes, length = 1.8m

Set Includes:
- nSoft-CAL software on CD incl. driver
- User manual as PDF on CD
- nLink-USB Connection cable to PC for all nSens probes, length = 1.8m

Adapter SAL-SC / nSens

Plastic adapter for humidity standards as reduction piece and radial seal on the circumference of the respective sensor.

Adapter SAL-SC / variable 9-17mm

USB power supply to ClimMate

Power supply for external power supply with USB plug connection for ClimMate.
ClimMate battery isn’t charged yet.

Technical data:
- Dimension: 55x25x80 mm
- Weight: 50 g
- Input: 100...260V AC 50/60 Hz
- Output: +5V DC USB
- Housing: Plastic ABS
### Protective Bag

- **111 8957**
- **Description:** For storage and transport of the hand-held measuring instrument, the sensor and the SAL-SC Check humidity references.
- **Technical data:**
  - Dimensions: 250 x 200 x 40mm
  - Weight: 185 g (empty)
  - Material: Textile upholstered, 2 side pockets to accommodate 2 x SAL-SC Check

### Replacement Instrument

- **260 1206**
- **Description:** Single instrument without accessories as spare part to the ClimMate set. Robust housing made of ABS incl. batteries, certificate, operating instructions and soft bag for transport and storage!
- **Technical data:**
  - Instrument: 170 x 62 x 34 mm
  - Weight: approx. 205 gr
  - TFT display 54 x 41 mm illuminated behind glass with touch surface
  - Built-in:
    - Absolute pressure sensor: 800...1100mBar
    - Integrated (incl. factory certificate)
    - Max. Altitude above sea level: 4'000m
  - Only single device in soft bag available!

### nLink-UMB

- **260 1063**
- **Description:** Conversion adapter from nSens sensor to Bus input of the ClimMate. Attention: 1 nLink-UMB is connected to each nSens sensor. is required for connection.
- **Technical data:**
  - Dimension: 20 x 60 mm
  - Weight: approx. 30 g
  - Connector: 5 pin screwed for UMB bus and 3 pin for nSens-HT

### Spare Case

- **260 1224**
- **Description:** Empty case for handheld system „ClimMate“ with div. Compartments for additional sensors and SAL-SC Humidity standards and extension cables. Inserts in the case are already cut out and ready to pick up various sensors. Attention: Case has no lock with key or combination lock!
- **Technical data:**
  - Dimensions: Case 450x360x105mm
  - Empty weight: 1'200 gr (empty)
  - Material: Plastic, Foam insert
Measuring and control technology
relative humidity, temperature and other climatic parameters

Electrolytic measurement technology: nSens-HT-ENS
A new level of humidity and temperature measurement
• Fastest response in the measuring range 0 - 100 % rH / -20 to +80°C
• drift-free measurement of high humidity (>70 % RH)
• highest accuracy and reproducibility (±0.5% rH)
• insensitive to volatile components (NH3, H2O2 etc.)
• Calibration data stored directly in the probe
• automatic sensor recognition

Capacitive measurement technology: nSens-HT-CSS
Adjusted price/performance for comfort climate
• Capacitive measurement technology for the measuring range 20 - 80 % rH
• Accuracy ±2.5%@25°C
• calibration data stored directly in the sensor
• automatic sensor recognition

Temperature Sens-T:
• Temperature sensor with NTC measuring element
• Measuring range -20 to +80°C
• Accuracy ±0.1K Flexible communication options

Wireless: Wireless solutions with cloud connectivity
Digital: direct integration in Modbus RTU
Ethernet data logger: data transmission via Decentralized storage in internal databases
Analog: mA/V Multisensor capable transmitter
## nSens sensors and certificates

### Electrolytic measurement technology for highest demands

**nSens-HT-ENS**

- Includes 6 points factory certificate and nCap-PS Protective filter cap.
- The adjustment points are stored directly in the sensor.
- Sensor is pluggable and can be exchanged very quickly and easily.

**Technical data:**
- **Dimension:** L101mm x Ø 13mm
- **Accuracy / Measuring range:**
  - Humidity +/-0.5%
  - 0….100% rH
  - Temperature +/-0.1K
  - -20°…+80°C
- **Communication:** digital via nBus
- **Factory calibration:** at 5 humidity points as well as 1 temperature point incl. Calibration certificate

### Heated Humidity Sensor for condensing environment

**nSens-HT-ENH**

- Digital humidity & temperature sensor with heated, electrolytic humidity sensor & NTC temperature measurement. Ideal for high humidity applications (95-100%).
- Including 6 points factory certificate and nCap-PS Protective filter cap.
- Attention: Cannot be used with NovaZone Sensor.

**Technical data:**
- **Dimension:** L101mm x Ø 13mm
- **Accuracy / Measuring range:**
  - Humidity +/-1%
  - 0….100% rH
  - Temperature +/-0.2K
  - -20°…+80°C
- **Communication:** digital via nBus
- **Factory calibration:** at 6 humidity points as well as 1 temperature point incl. Calibration certificate

### Capacitive measurement technology for comfort air conditioning

**nSens-HT-CSS**

- Digital humidity & temperature sensor with capacitive humidity sensor.
- CSS sensor with nCap-E (without filter)
- CSP sensor with nCap-P (with protective filter)
- The adjustment points are stored directly in the sensor.
- The sensor is pluggable and can be exchanged very quickly and easily.
- Separate calibration/adjustment kit with software available.

**Technical data:**
- **Dimension:** L101mm x Ø 13mm
- **Accuracy / Measuring range:**
  - Humidity type +/- 2%
  - 10….90% rH
  - Temperature type +/-0.3K
  - -20°…+80°C
- **Communication:** digital via nBus
- **Factory calibration:** at 3 humidity points and 1 temperature point. Certificate must be ordered separately.

### nSens temperature sensor incl. works certificate

**nSens-T-NBS**

- Digital temperature probe with NTC temperature measuring element.
- The adjustment points are stored directly in the sensor.
- The sensor is pluggable and can be exchanged very quickly and easily.
- Separate calibration/adjustment kit with software available.

**Technical data:**
- **Dimension:** L101mm x Ø 13mm
- **Accuracy:** +/-0.1K
- **Measuring range:** -20°…+80°C
- **Communication:** digital via nBus
- **Factory calibration:** at 2 temperature points incl. calibration certificate
- **Adjustment:** using nSoft-CAL software

### Measured value - Simulator

**nSens-VAL-HT**

- Simulation plug for the output of fixed values for relative humidity and temperature.
- The fixed values are set using the calibration software nSoft-CAL, which is available separately.
- For loop checks as well as testing and validation of systems.

**Technical data:**
- **Dimension:** L101mm x Ø 13mm
- **Communication:** digital via nBus
- **Fixed value settings via nBus**
SCS or Dakk’s calibration certificate. Verification by an accredited testing laboratory, incl. certificate.

Calibration at 3 humidity points (RH) and 1 temperature point with indication of the measurement uncertainty (fixed measurement points).

Individual points can be requested.

Factory calibration ISO 9001
111 2873
Factory calibration ISO 9001
(3* humidity)
111 2874
Factory calibration ISO 9001
(5* humidity)
111 2874

Individual points can be requested.

Factory certificates for nSens-HT-CS* must also be ordered if required.

nSens-HT-ENS contain the factory certificate at 6 points (111 2874) in the scope of delivery.

Probes can be recalibrated and adjusted at any time.

Transmitter for nSens sensor

Measuring transducer for nSens sensors, for DIN rail mounting in switch cabinets. 2 analog outputs, freely configurable (mA/V) via USB or NFC.

Compatible with all nSens probes and 3-wire nSens cables (not included).

Technical data:
- Power supply: 24V DC
- Display: not available
- Analog outputs: two scalable analog outputs
- Application: Mounting rail holder for installation in control cabinet
- Operating temperature: 0 to 50°C
- Storage temperature: -10 to 60°C (non-condensing)
- CE/EMC: Safety: IEC 61010-1:2010
- EMC: IEC 61000-6-2:2005, EN 61000-6-2:2005

nLink AnalogEC
260 1747

Transmitter for nSens sensor in housing with protection class IP67. 2 analog outputs, freely configurable (mA/V) via USB or NFC.

Compatible with all nSens sensors and nSens cables (not included).

Technical data:
- Power supply: 24V DC
- Display: not available
- Analog outputs: two scalable analog outputs
- Application: Stand alone transmitter with connected probe
- Housing material: ABS
- Protection class: IP67
- Operating temperature: 0 to 50°C
- CE/EMC: Safety: IEC 61010-1:2010
- EMC: IEC 61000-6-2:2005, EN 61000-6-2:2005
Multisensor capable transmitter in a robust plastic housing. Large LCD screen for display and configuration.

**Input:**
Up to 4 nSens sensors with cable lengths up to 100 meters (see nSens cable).

**Output:**
4x analog OUT (mA / V)
Freely configurable.
**Additional for relay version:**
2x switching contacts (24VDC / 3A)

**Technical data:**
- **Dimension:** B150xH165xT54mm
- **Power supply:** 24V +/- 15% AC/DC
- **Power:** max. 3 W
- **Outputs:** 4 x analog U/I
  - 0/2...10V, 0/4...20mA
- **Other climate parameters:**
  - Mixing ratio
  - Partial water vapour pressure
  - Dew point temperature
  - Specific enthalpy
  - Absolute humidity

**QuantaDat Transmitter for analog signals (mA/V)**
260 1087

**QuantaDat-RL Transmitter for analog signals and relays**
260 1161

**nLink-Modbus (RTU/RS485)**
260 1095

Communication adapter for all nSens sensors on Modbus RTU, RS485.
Power supply 5-18VDC.
Attention: for each nSens sensor a 1 nLink Modbus is required for connection...

**Input:**
1 nSens sensor (ENS, CSS, T etc)

**Output:**
M12 connector RS485 (Modbus A&B, Voltage +)

**Technical data:**
- **Dimension:** 20*60mm
- **Power supply:** 5-18V DC
- **Outputs:** Modbus RTU

Modbus allows the reading of all climate and diagnostic data of the connected nSens sensors.

**Technical description / Modbus register on novasina.ch**

Configuration of the adapter via Modbus or nCom485 set (260 1125).

**nCom 485 Cable**
260 1125

Configuration cable for nLink-AnalogEC and nLink-AnalogIP.

**nLink-USB-CA3**
260 1818

1.8m long configuration cable for nLink-AnalogEC and nLink AnalogIP for Android or Windows PC. Software available for online download

Incl. USB adapter fo USB-Micro and USB Cable

**NEU**
This set includes:
- Display/Transmitter Unit QuantaDat (260 1087)
- nSens-HT-ENS probe (260 1171)
- nSens cable 5m incl. wall clip and flange
  - works certificate

Three additional nSens sensors can also be connected and configured on the Quantadat.

Technical data:
Dimensions: B150xH165xT54mm
Power supply: 24V +/- 15% AC/DC
Power: max. 3W
Outputs: 4 x Analog U/I
  - 0...10V / 2...10V
  - 0...20mA / 4...20mA
Accuracy: 0...100% rH (+/-0.5%)
  - -20°...+80°C (+/-0.1K)
Climate parameters:
  - Mixing ratio, water vapour partial pressure, dew point temperature, specific enthalpy, absolute humidity

Set Modbus
260 1315

This set includes:
- nLink Modbus (260 1095)
- nSens-HT-ENS probe (260 1171)
  - works certificate

Technical data:
Dimension: 20x60mm
Power supply: 5-12V DC
Outputs: Modbus RTU
Accuracy: 0...100% rH (+/-0.5%)
  - -20°...+80°C (+/-0.1K)
Climate parameters:
  - Mixing ratio
  - Water vapor partial
  - Dew point temperature
  - Specific enthalpy
  - Absolute humidity

nSens cable

Cable 3*0.5mm², very resistant, halogen free and with quick connector for nSens-HT and nSens-T probe.

Sensor side with cable plug, transmitter side with 3 wire end sleeves for easier terminal entry.

Note:
Wall clip and duct flange available separately. (Art.No. 260 1083)

Technical data:
Cable lengths: 5 / 10 / 30 / 60 / 100m
Dimensions: L52mm x Ø15.8mm
Temperature range: -40°C to +90°C
Cable plug:
More detailed information on dimensions can be found on the technical data sheet.

Properties:
More detailed information on resistance and standardization can be found on the technical data sheet.

nSens cable for Modbus
260 1135 Bus cable 2 meter
260 1349 Bus cable 10 meters

To connect the nLink-Modbus adapter to the Modbus network
- Adapter side with M12 screw connector
- Network side with 4 open cable ends

Technical data:
Cable length: 2m / 10 m
Weight: approx. 100 g
Connector: M12 thread for nLink Modbus
4 wire ends for connection to Modbus

nSens extension for duct mounting
260 1651

Compatible with all nSens sensors and nSens cables

Technical data:
Dimension: L225mm Ø 16mm
Material: anodised aluminium
Weight: approx. 100 g
Plug: nSens plug / socket
nSoft-CAL Calibration-Set
260 1094

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

Set includes:
- 1 nlink USB cable (1.8m) for all nSens sensors
- Software adjustment of the nSens sensors

Technical data:
Includes:
- nSoft-CAL software on CD incl. driver
- User manual as PDF on CD
- nLink-USB connection cable nSens to PC, length = 1.8m

Humidity generators SAL-SC
260 0978
111 0885
111 0855
111 0857
260 0219
111 0859
251 8965
111 0886
251 8966

Ready to use and reusable as often as required when stored correctly.

Shelf life 5 years (with correct storage)
Moisture standards based on saturated salt solutions in plastic cylinders, with moisture-permeable membrane.

Technical data:
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 ..... 66.0% 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

According to the Greenspan Report 1977, the reproducibility amounts to typically +/- 0.3 % RH
Weight: 90g per piece

Humidity generators SAL-SC with accreditation certificate
111 1044
111 1037
111 1040
111 1035
260 1272
111 1032
251 1275

Individually related to the serial number of the SAL-SC.
1 point factory certificate for all SAL-SC.
Must be ordered together with a SAL-SC product.

Humidity standards SAL-SC delivered as a set in a case incl. adapter for Novasina sensor systems
The case set contains:
- SAL-SC 11
- SAL-SC 33
- SAL-SC 53
- SAL-SC 75
- SAL-SC 90
- QA Certificate for SAL-SC
- 2 adapters for Novasina sensor systems

Technical data:
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

According to the Greenspan Report 1977, the reproducibility amounts to typically +/- 0.3 % RH
Weight: 700g

Humidity standards SAL-SC delivered as a set in a case incl. adapter for Novasina sensor systems

Climate Transmitter
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Doc. Nr.: 006453.00
### Adapter SAL-SC

- **Adapter SAL-SC/nSens**
  - 260 1143
  - 260 1271
- **Adapter variable 9-17mm**
  - for all sensor types up to 17mm

Plastic adapter for humidity standards as reduction piece and radial seal on the circumference of the respective sensor.

**Technical data:**
- **Dimension:**
  - ID 13 mm (nSens)
  - ID 9-17mm (variable)
- **Weight:** 5 g each
- **Material:** Thermoplastic plastic

### Thermal insulation box for SAL-SC

- **Thermal insulation box for SAL-SC**
  - 111 1302

Styrobox for temperature stabilization of a SAL-SC check during adjustment. Box consisting of 2 half shells, which are attached around the SAL-SC cylinder.

**Technical data:**
- **Dimensions:** 100 x 65 x 50 mm
- **Weight:** 10 g
- **Material:** Foamed more thermal insulating Styrofoam PPE

### External power supply

- **External power supply**
  - 252 4210

External power supply unit with exchangeable plug inserts EU/US/JP

Input: For voltage range from 90...264 VAC

Output: +24 VDC

**Technical data:**
- **Primary side:** Voltage range 90 ... 264VAC
  - Connector type EU/US/JP
- **Secondary side:** voltage 24V DC +/- 5%
  - Open cable end prepared for connection
- **Weight:** 90 gr

### Voltage transformer 24V/10VDC

- **Voltage transformer 24V/10VDC**
  - 260 1375

Voltage converter for nLink Modbus supply.

Terminal block/ DIN rail mounting for control cabinet.

Primary side: 24VDC

Secondary side: voltage 10V DC / 0.5A with 6 mm height 56 mm (from mounting rail) Depth 91 mm

### Climate Transmitter

**Doc. Nr.: 006453.00**
nCap-E protective filter cap

Protective cap without filter insert.
Mechanical protection only.
Recommended for nSens-T (temperature sensor) and nSens-HT-CSP/CSS in dust-free rooms.

Wall and duct mounting kit

Set for mounting nSens sensors on walls or channels, incl. screws.
The duct flange seals up to a pressure of 3 bar off!

Wall Mounting Kit

For wall distance up to center 20mm for different sensor types.
Wall mounting material is supplied.

Case back for QuantaDat

As spare part
Includes all cables, compression fittings, cable fixing web and sealing membrane.
**nLink AnalogIP**

Single channel temperature transmitter for installation in electrical cabinets on mounting rails. For one PT100 / PT1000 (2, 3 or 4 wire) sensor. 1 analog and 1 RS485 Output.

Configuration with USB configuration cable for Windows PC. Configuration possible without external power supply.

**Technical data:**
- **Power supply:** 24V DC
- **Premission voltage range:** 5 to 39V
- **Power consumption:** <0.5W
- **Display:** none
- **Input:** 1* PT100 / PT1000 (-150…+300°C) 2, 3 or 4 wire
- **Output:** 1 scalable analogue outputs current (0/4..20mA or voltage 0/2..10V) Modbus RTU/RS485

**nLink AnalogEC**

Measuring transducer for nSens sensors, for DIN rail mounting in switch cabinets. 2 analog outputs, freely configurable (mA/V) via USB or NFC.

Compatible with all nSens probes and 3-wire nSens cables (not included).

**Technical data:**
- **Power supply:** 24V DC
- **Premission voltage range:** 5 to 39V
- **Power consumption:** <0.5W
- **Display:** none
- **Input:** 1* PT100 / PT1000 (-150…+300°C) 2, 3 or 4 wire
- **Output:** 1 scalable analogue outputs current (0/4..20mA or voltage 0/2..10V) Modbus RTU/RS485

**PT100 sensor 2L**

50... 200°C (V4A 6*50mm)

Universal cable sensor PT100 2 wire. With 3 meters Silicon cable.

**PT100 sensor 4L**

-190 bis +260 °C

Extended temperature range, with Teflon cable, PT100, 4 wire.

Configuration cable for TempDat and nLink Modbus to Windows PC.
Software available for download (ACT-M).

**Configurations-Set**

nLink-USB-CA4
260 1125: nLink-RS485-CA4 (complete set)
260 1843: CA-4 Adapter

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**Climate Transmitter**

Doc. Nr.: 006453.00
HygroMaxx

HVAC (heating, ventilation, air conditioning) measuring instrument with large display for relative humidity and temperature measurement. For room (S/M) or duct (R) applications.

Simple operation via keyboard and intuitive function menu. The unit is equipped with two analogue outputs for relative humidity and temperature. These can be freely scaled. The HygroMaxx measuring instrument is available in different versions.

Relative humidity: 0....100% rh
Temperature: -20...80°C (sensor) 0...50°C (transmitter)
Accuracy: rh: +/- 3.0% rh at 5...95% rh and 0.....50°C +/- 1.5% rh at 10...90% rh and 15....30°C
            (after 3 point calibration with Novasina SAL-SC)
Temp.: ± 0.5°K (0...50°C) / ± 0.8°C (-10...80°C)
Output signals: 2 analog outputs U/I (switchable)
                U: 0...10V ; 2...10V / I: 0...20mA ; 4...20mA
                Free scaling of the output characteristic possible.
Display: 2 lines Display for relative humidity and temperature
Functions: Selectable units °C / °F, scaling OUT
Adjustment: 3 humidity, 1 temperature point
Average query: ¼, 1, 3 hours, password protection
Adjustment: At any time with Novasina humidity standards SAL-SC over 3 points readjustable (temperature 1 offset point)
Measuring principle: Digital, capacitive CMOS-Sens® technology

Measuring instrument HygroMaxx:

Dimensions: 110 x 118 x 50mm
Power supply: 24 V DC ± 20%
Sensor length S: 13 x 75 mm
Sensor length R: 13 x 250 mm
Humidity measurement:
CMOS-Sens® technology, digital capacitive
Measuring range: 0...100 % rh
Reproducibility: ± 1.0 % RH
Accuracy (standard): ± 3.0 % rh
Accuracy (calibrated): ± 1.5 % rh
Temperature measurement:
Digital PN transition to silicon
Measuring range: -20....80°C
Reproducibility: +/- 0.1 K
Accuracy: +/- 0.5 K (10...30°C)
Accuracy: +/- 0.8 K (-20...80°C)

Sensor Checks SAL-SC:
Moisture standards based on saturated salt solutions in plastic cylinders, with moisture-permeable membrane.
Values: 11%, 33%, 53%, 58%, 75%, 84% 90%rh.

HygroMaxx

For monitoring, control and regulation
Humidity/temperature transmitter for HVAC and process control with local LCD display.

The instrument is extremely easy to install and maintain thanks to its sophisticated design. Built-in menu functions facilitate commissioning and service or adjustment with Novasina SAL-SC humidity standards. This product line can also be adapted to special customer requirements (OEM versions).
HygroMaxx S

Humidity/temperature measuring instrument for rooms
HVAC transmitter in an attractive, robust design. Two-piece plastic housing. Ideal for room climate measurements for monitoring and control.
Electrical cables can be inserted from the rear or underside. The large LCD display makes it easy to read, even from a distance. Various menu functions such as adjustment, scaling (Aout) and password protection.

Dimensions: 110 x 118 x 50 mm
Sensor: 13 x 75 mm
Weight: 220 g
Power supply: 24 VDC ± 20%
Outputs: 2 x analog U/I
0...10V / 2...10V
0...20mA / 4...20mA
Measuring range: 0...100%/-20°...+80°C (sensor only)
Units: rF / °C or °F
Optional: Factory calibration

HygroMaxx R

Humidity/temperature measuring instrument for ducts
HVAC transmitter in an attractive, robust design. Two-piece plastic housing. Ideal for measurements in ventilation ducts. Electrical cables can be inserted from the rear or underside. The large LCD display makes it easy to read, even from a distance. Various menu functions such as adjustment, scaling (Aout) and password protection.

Dimensions: 110 x 118 x 50 mm
Sensor: 13 x 250 mm
Weight: 280 g
Power supply: 24 VDC ± 20%
Outputs: 2 x analog U/I
0...10V / 2...10V
0...20mA / 4...20mA
Measuring range: 0...100%/-20°...+80°C (sensor only)
Units: rF / °C or °F
Optional: Factory calibration

HygroMaxx M

Humidity/temperature measuring instrument, remote sensor with 3 meter cable
HVAC transmitter in an attractive, robust design. Two-piece plastic housing. Thanks to the remote SensMaxx 13 sensor with 3m cable (included in delivery), ideal for measurements for monitoring and control of industrial processes where high flexibility is required.
The large LCD display makes it easy to read, even from a distance. Various menu functions such as adjustment, scaling (Aout) and password protection.

Dimensions: 110 x 118 x 50 mm
Weight: 200 g
Power supply: 24 VDC ± 20%
Outputs: 2 x analog U/I
0...10V / 2...10V
0...20mA / 4...20mA
Measuring range: 0...100%/-20°...+80°C (sensor only)
Units: rF / °C or °F
Optional: Factory calibration
Accessories: Duct mounting kit wall mounting kit (not included in delivery)
StatMaxx

The StatMaxx series fulfils the function of a hygro/thermostat for control and regulation as well as monitoring of humidity and temperature in rooms. Thanks to simple operation via an intuitive menu system, the device can be quickly adapted to all requirements. It has an internal relay for one switching function. In conjunction with the Stat-PU power supply, devices with switching capacities of several KW can be switched.

For an effective monitoring system, the StatMaxx also has a digital UMB bus system and can be connected directly to a DataLog 30 data logger. The StatMaxx is available in 3 versions, for room and duct mounting and with remote sensor.

Relative humidity: 0....100% rH
Temperature: -20...80°C (sensor) 0...50°C (transmitter)
Accuracy: rh: +/- 3.0% rh at 5...95% rh and 0.....50°C +/- 1.5% rh at 10...90% rh and 15....30°C (after 3 point calibration with Novasina SAL-SC)
Temp.: ± 0.5°K (0...50°C) / ± 0.8°C (-20...80°C)
Output signals: 1 digital with relay NO/NC max. 30VAC/2A
1 UMB bus interface (Universal Measurement Bus)
Display: 2-line display RH and T, menu, error handling
Functions: Units Temperature °C and °F, Humidity %RH, adjustment at 3 humidity and temperature points (offset), alarm/control point incl. hysteresis and delay, UMB bus configuration, Average calculation at ¼, 1, 3 hours, password protection
Adjustment: With Novasina SAL-SC standards at up to 3 humidity points, / Calibration Temperature with comparison measurement 1 point
Measuring principle: rF: digital capacitive CMOS-Sens® technology
Temp: digital PN transition to CMOS chip

Measuring instrument StatMaxx :

| Dimensions: | 110 x 118 x 50mm |
| Supply voltage: | 24 V DC ± 20% |
| Sensor length S-type: | Diam. 13 x 58 mm |
| Sensor length R-type: | Diam. 13 x 250 mm |
| Sensor length M-type: | Diam. 13 x 250 mm |
| Humidity measurement: | CMOS-Sens® technology, digital capacitive |
| Measuring range: | 0...100 % rH |
| Repeat accuracy: | ± 1.0 % rH |
| Max. Measuring accuracy: | ± 3.0 % rH |
| Max. Measuring accuracy: | ± 1.5 % rF(calibrated) |
| Temperature measurement: | Digital PN CMOS transition to chip |
| Measuring range : | -20...80°C |
| Repeat accuracy : | +/- 0.1°K |
| Measuring accuracy : | +/- 0.5°K (0...50°C) |
| | +/- 0.8°K (-20..80°C) |
| Sensor Checks SAL-SC: | Moisture standards based on saturated salt solutions in plastic cylinders, with moisture-permeable membrane „Cellgard”. |
| Values: | 11%, 33%, 53%, 58%, 75%, 84%, 90%rh. |
Based on the HygroMaxx S transmitter, the StatMaxx S measures the relative humidity and temperature in rooms, displays them and transmits them via UMB protocol to a DataLog 30. Up to 4 StatMaxx units can be connected to a logger (bus length max 150m).
In addition, simple 2 point control functions (%RH/Temp.) can be carried out using relays and the Stat-PU power supply.

**Technical data:**
- **Dimensions:** 110 x 118 x 50mm
- **Sensor:** diameter 13 x 58 mm
- **Weight:** 220 g
- **Power supply:** 24 VDC ± 20%
- **Outputs:** UMB interface for 4 StatMaxx to DataLog 30
  1 ON/Off Relay
  30V / 2 A for alarm or Control (Setpoint)
- **Optional:** Factory adjustment RH/T 33, 75 % RH / 25°C

**StatMaxx R**

Based on the HygroMaxx R, the StatMaxx R measures the relative humidity and temperature in rooms, displays them and transmits them via the UMB protocol to a DataLog 30. Up to 4 StatMaxx can be connected to a logger (bus length max 150m).
In addition, simple 2 point control functions (%RH/Temp.) can also be carried out using relays and the Stat-PU supply.

**Optional:**
Duct mounting kit not included in delivery

**Technical data:**
- **Dimensions:** 110 x 118 x 50mm
- **Sensor:** diameter 13 x 250 mm
- **Weight:** 240 g
- **Power supply:** 24 VDC ± 20%
- **Outputs:** UMB interface for 4 StatMaxx to DataLog 30
  1 ON/Off Relay
  30V / 2 A for alarm or Control (Setpoint)
- **Optional:** Factory adjustment RH/T 33, 75 % RH / 25°C

**StatMaxx M**

Sensor with remote sensor for humidity and temperature measurement. The signal to DataLog 30 is transmitted via the proprietary UMB protocol. Up to 4 StatMaxx can be connected to the DataLog 30. The maximum bus length is 150m. In addition, 2-point control functions can be performed using the built-in relay and the Stat-PU power supply.

**Optional:**
Channel mounting kit (not included as standard)

**Technical data:**
- **Dimensions:** 110 x 118 x 50mm
- **Sensor:** diameter 13 x 250 mm
- **Weight:** 240 g
- **Power supply:** 24 VDC ± 20%
- **Outputs:** UMB interface for 4 StatMaxx to DataLog 30
  1 ON/Off Relay
  30V / 2 A for alarm or Control (Setpoint)
- **Optional:** Factory adjustment RH/T 33, 75 % RH / 25°C

**STAT-PU power unit**

Power supply and circuit breaker for StatMaxx measuring instrument. This allows higher power ratings (up to 11kW/3 phases) to be switched.

- **Typical applications:**
  Electric heating, cooling,
  Humidification/dehumidification.
  - Integrated 3-phase relay for 115...600V, up to 11 kW, and galvanic isolation
  - Integrated 24VDC power supply for StatMaxx and circuit breakers.

**Technical data:**
- **Dimensions:** 225x110x90 mm
- **Weight:** 700 g
- **Power supply:**
  - Input: 115-230V AC / 4W 50/60 Hz
  - Output: 24V DC / 2.5W relay
- **3 switching contacts NO isol. max. 11kW**
  1 Auxiliary account.NO isol.<= 17VDC/5mA
  115-600V AC / 16A
**Wall mounting kit 13mm**  
252 4468

Wall mounting clip (2 pcs.) for easy mounting of HS sensors on walls by means of M4 wood, plastic or metal screws. The clip can be used again and again.

Technical data:
- Material: Polycarbonate
- Quantity: 2 pcs.
- Weight: 15 g

**Duct mounting kit**  
111 5343

Duct mounting flange (1 pc.) for StatMaxx R / M instrument. For simple and light installation on ducts or through walls/ceilings incl. sealing O-ring. Mounting with 3 screws. The 13mm feed-through seals up to a maximum overpressure of 3 bar. The sensor can be removed at any time for readjustment.

-> Clamping range : 10 .... 14 mm

Technical data:
- Dimensions: 60 x 20 mm
- Weight: 30 g
- Clamping range: 9...14 mm

**Adapter SAL-SC**  
260 1143

Plastic adapter for humidity standards as reduction piece and radial seal on the circumference of the respective sensor.

-> Please first adapter to sensor and then SAL-SC Check and check for leaks.

Technical data:
- Dimensions: AD30 x ID 13 mm
- Weight: 5 g each
- Material: thermoplastic plastic

**Thermal insulation box for SAL-SC**  
111 1302

Styrobox for temperature stabilization of a SAL-SC check during adjustment. Box consisting of 2 half shells, which are attached around the SAL-SC cylinder.

Technical data:
- Dimensions: 100 x 65 x 50 mm
- Weight: 10 g
- Material: Foamed more thermal insulating Styrofoam PPE

**Replacement plug set to HygroMaxx R/S/M**  
252 3134

Replacement sensor for Hygro/StatMaxx S. If necessary, this can be replaced by loosening 2 screws in the cover and pulling out the RJ 11 connection.

Technical data:
- Dimensions: Ø 13 x 75 mm
- Cable: 150mm with RJ 11
- Weight: 15 g
- Housing: PVC version without membrane filter

**Replacement plug set - StatMaxx**  
260 0884

Plastic adapter for humidity standards as reduction piece and radial seal on the circumference of the respective sensor.

-> Please first adapter to sensor and then SAL-SC Check and check for leaks.

Technical data:
- Dimensions: AD30 x ID 13 mm
- Weight: 5 g each
- Material: thermoplastic plastic

**Spare room sensor for Hygro/StatMaxx**  
252 3131

Replacement sensor for Hygro/StatMaxx S. If necessary, this can be replaced by loosening 2 screws in the cover and pulling out the RJ 11 connection.

Technical data:
- Dimensions: Ø 13 x 75 mm
- Cable: 150mm with RJ 11
- Weight: 15 g
- Housing: PVC version without membrane filter
Replacement sensor for Hygro/StatMaxx R. This can be replaced if necessary by loosening 2 screws in the cover and pulling out the RJ 11 connection.

**Technical data:**
- **Dimension:** Ø 12.7 x L 250 mm
- **Cable:** 150mm with RJ 11
- **Weight:** 80 g
- **Housing:** stainless steel incl. filter for cell protection
- **Accessories:** Duct mounting kit (not included in delivery)

Replacement sensor for HygroMaxx M with 3 m cable. This can be exchanged if necessary incl. electric cable.

**Technical data:**
- **Dimension:** Ø 12.7 x L 250 mm
- **Cable:** 3 m 5pol with screen
- **Weight:** 140 g
- **Housing:** stainless steel incl. filter for cell protection
- **Accessories:** Duct mounting kit wall mounting kit (not included in delivery)

Replacement sensor removed StatMaxx M


**Technical data:**
- **Dimension:** Ø 12.7 x L 250 mm
- **Cable:** 150mm with RJ 11
- **Weight:** 80 g
- **Housing:** stainless steel incl. filter for cell protection
- **Accessories:** Duct mounting kit (not included in delivery)

As a replacement for damaged caseback.

**Technical data:**
- **Dimensions:** 110 x118 x 35 mm
- **Weight:** 80 g
- **Housing:** PVC

Housing bottom closed Hygro/StatMaxx

External power supply primary side for a voltage range from 90 to 264 VAC with variable plug insert for EUR / US / JP.

On the secondary side it can be connected directly to all Hygro/StatMaxx types.

**Technical data:**
- **Primary side:**
  - **Voltage range:** 90 ... 264VAC EU/US/JP
- **Secondary:**
  - **Voltage:** 24V DC +/- 5%
- **Open cable end for connection primed**
- **Weight:** 90 gr

External power supply unit EU/US/JP plug

Including Novasina works certificate

Factory Certification and Adjustment to 3 humidity points (11%, 53%, 75% RH) and 1 temperature point (+25°C) incl. factory certificate.

-> Enables increased measuring accuracy.

factory adjustment

252 4210

252 4212
The multiple display for room parameters such as humidity, temperature, differential pressure, particles, access control, etc. allows easy and fast reading of the conditions prevailing in the clean room. The signals are transmitted by external environmental sensors or switching relays. In addition to the effective measured value, which is displayed with the corresponding designation (e.g. temperature, humidity, etc.) and measuring location, the display background colour changes depending on the status. The colour green stands for a value within the limit values and red as soon as the range is exceeded or not reached.

The CIC-Touch display panel can be mounted easily and quickly flush and without screws in clean room walls. The unit is simply snapped into a wall recess and fixed in place with tension springs attached to the panel. Thanks to the small installation depth, the display fits into all common clean room walls. The smooth front meets cleanroom requirements and offers absolutely no dust or dirt traps and is very easy to clean.

Another highlight of the CIC-Touch is its versatile connectivity via analog/digital interfaces, switching contacts, Ethernet, Modbus, USB, RS-232, RS-485 and SD card. Thus, the display can also be optimally integrated into existing installations. Configuration is carried out via the intuitive operating and parameterisation menu.

For OEM applications, the CIC-Touch can also be pre-configured to customer specifications.

Your advantages:
- Flush mounting without dirt traps
- Easy to clean thanks to absolutely flatter Touch-Screen Surface
- Low installation depth and therefore suitable for all Cleanroom walls can be used
- Easy installation with tension springs
- Display of up to 4 parameters simultaneously
- Status display using background color
- Simple configuration via intuitive menu
- Various communication interfaces

Recommended environmental sensors to connect:

Humidity and temperature:
- QuantaDat / nSens / nLink-Modbus
- HygroMaxx S/R/M
- TempMaxx

Differential pressure:
- Pascal-ST/ZB
- PascalMaxx

This universal display can also be operated with sensors from other suppliers and is therefore also suitable for retrofitting.

Specifications:

Display: Graphic 3.5” TFT
Display 70x52mm
Front: 150 x 120 mm (H2O2 order no.)
Mounting: H 127 x W 107 x D 50mm. dim.: incl. connectors
Power supply: 24 V AC/DC
Inputs: 4 x digital inputs
4 x analog inputs
Outputs: 2 x relay contacts
230V
Digital interfaces: Ethernet, Modbus (RS-485)
USB: Standard PC compatible
Pascal-ST/ZB Differential pressure measuring instruments

Thanks to the latest sensor technology, optimized measuring electronics and automatic zero point adjustment, this instrument measures static differential pressure with high accuracy, repeatability and long-term stability.

Various functions such as calibration, password protection, measurement filter, signal output adjustment as well as alarm settings make this instrument very adaptable. Its applications are very versatile and it offers an ideal solution for demanding applications in the field of differential pressure monitoring and control.

Main features:

- Measuring ranges: -25...+25 Pa / -100...+100 Pa (bidirectional)
- Measuring accuracy: 25 Pa series +/- 0.3% (total measuring range) at 20°C 100 Pa series +/- 0.1% (total measuring range)
- Hysteresis: +/- 0.15 Pa (over entire measuring range)
- Type offset drift: +/- 0.15 Pa (with automatic zero point adjustment)

Pascal-ST/ZB

Pascal-STV 25 ZB (bidirectional)
260 1241


The measuring method is based on a piezoresistive silicon diaphragm. The continuously measured value is output to a scalable and adjustable analog output (voltage or current).

- Analog scalable output 0..10V / 4...20mA
- Additional LCD display on instrument

Technical data:

- Measuring range: -25 ... +25 Pa
- Analog output
  U : 0/2...10V (R_L > 10kOhm)
  I : 0/4...20mA (R_L > 500Ohm)
- Power supply 10.5 ... 35 VDC
- Dot Matrix LCD Display
- Power consumption max. 2.5 Watt
- Weight: 320 gr

Pascal-STV 100 ZB (bidirectional)
260 1242

Measuring instrument for monitoring and controlling differential pressure in the deep measuring range from -100 to +100 Pa.

The measuring method is based on a piezoresistive silicon diaphragm. The continuously measured value is output to a scalable and adjustable analog output (voltage or current).

- Analog scalable output 0..10V / 4...20mA
- Additional LCD display on instrument

Technical data:

- Measuring range: -100 ... +100 Pa
- Analog output
  U : 0/2...10V (R_L > 10kOhm)
  I : 0/4...20mA (R_L > 500Ohm)
- Power supply 10.5 ... 35 VDC
- Dot Matrix LCD Display
- Power consumption max. 2.5 Watt
- Weight: 320 gr

Pascal-STD 25 ZB (bidirectional)
260 1243


The measuring method is based on a piezoresistive silicon diaphragm. The continuously measured value is output to a scalable and adjustable analog output (voltage or current).

- Analog scalable output 0..10V / 4...20mA

Technical data:

- Measuring range: -25 ... +25 Pa
- Analog output
  U : 0/2...10V (R_L > 10kOhm)
  I : 0/4...20mA (R_L > 500Ohm)
- Power supply 10.5 ... 35 VDC
- Power consumption max. 2.5 Watt
- Weight: 320 gr

Pascal-STD 100 ZB (bidirectional)
260 1244

Measuring instrument for monitoring and controlling differential pressure in the deep measuring range from -100 to +100 Pa.

The measuring method is based on a piezoresistive silicon diaphragm. The continuously measured value is output to a scalable and adjustable analog output (voltage or current).

- Analog scalable output 0..10V / 4...20mA

Technical data:

- Measuring range: -100 ... +100 Pa
- Analog output
  U : 0/2...10V (R_L > 10kOhm)
  I : 0/4...20mA (R_L > 500Ohm)
- Power supply 10.5 ... 35 VDC
- Power consumption max. 2.5 Watt
- Weight: 320 gr
Pascal-STVS 25 ZB
(bidirectional)
260 1245


The measuring method is based on a piezoresistive silicon diaphragm. By exceeding or falling below the adjustable limit values, the 2 built-in relays are activated and the status is indicated by a coloured LED.

- 2 x relay alarm/switch output 48VDC/2A
- Additional LCD display on instrument

Technical data:
- Measuring range: -25 ... +25 Pa
- 2 adjustable thresholds
- Red/green LED indicators
- 2 relays (normally closed/ normally open)
- Power supply 10.5 ... 35 VDC
- Dot Matrix LCD Display
- Power consumption max. 2.5 Watt
- Relay contacts: 2 x 48V, 2 A
- Weight: 320 gr

Pascal-STVS 100 ZB
(bidirectional)
260 1246

Measuring instrument for monitoring and alarming at differential pressure in the low measuring range from -100 to +100 Pa.

The measuring method is based on a piezoresistive silicon diaphragm. By exceeding or falling below the adjustable limit values, the 2 built-in relays are activated and the status is indicated by a coloured LED.

- 2 x relay alarm/switch output 48VDC/2A
- Additional LCD display on instrument

Technical data:
- Measuring range: -100 ... +100 Pa
- 2 adjustable thresholds
- Red/green LED indicators
- 2 relays (normally closed/ normally open)
- Power supply 10.5 ... 35 VDC
- Dot Matrix LCD Display
- Power consumption max. 2.5 Watt
- Relay contacts: 2 x 48V, 2 A
- Weight: 320 gr

Accessories

PascalTool-Win
111 6848

Configuration software for Windows

Configuration program PascalTool-Win for setting and changing parameters in Pascal STS, STVS, STD, STV / Z encoders.

Supplied on CD

Prerequisites:
- Windows PC with CD drive, executable on Windows 98/NT/2000/ Vista/Windows 7
- Suitable for Pascal STS, STVS, STD, STV / Z & ZB

External power supply unit
EU/US/JP plug
262 4210

External power supply primary side for a voltage range from 90 to 264 VAC with variable plug insert for EUR / US / JP.

On the secondary side it can be connected directly to all Pascal STx types.

Technical data:
- Primary side:
  - Voltage range: 90 ... 264VAC EU/US/JP
- Secondary:
  - Voltage: 24V DC +/- 5%
- Open cable end for connection primed
- Weight: 90 gr

Programming cable to PC
(DB9)
111 6849

Programming cable for connection to a PC, suitable for all Pascal-ST models.

Technical data:
- Cable length: 1.5 m
- Special clinker plug (Pascal side)
- D-Sub 9 plug (PC-side)
- Weight: 95 gr

Factory calibration on
3 measuring points
111 7603

Factory adjustment with corresponding factory certificate for all Pascal measuring instruments.

The calibration takes place at 3 measuring points, which must be specified by the customer.

Technical data:
- Factory inspection and Adjustment of 2 measuring points.
- The check is carried out by means of a calibrated and certified differential pressure measuring system.
SCS certificate according to DIN/ISO17025 for all Pascal measuring instruments.

The certification takes place at 10 measuring points distributed over the measuring range of the sensor.

Certification at 10 measuring points

Upon special request, all Pascal devices can be factory configured.
To do this, all required parameters must be submitted beforehand using a prefabricated and completed form.

Technical data:
Please fill out the Excel based form, so that an exact configuration of all Pascal measuring instruments can be carried out.

Custom configuration Pascal
111 6074

PascalMaxx

Differential pressure measurement made easy!

Thanks to a high-quality diaphragm sensor, optimized measuring electronics and integrated, automatic zero point adjustment, this instrument measures very accurately, repeatable and stable even at higher differential pressures.

Various functions, which can be set via the front keypad, make this system versatile and adaptable.

Main features:
- Measuring ranges: -50...+50 Pa / 0...+500 Pa / 0...+2000 Pa
- Measuring accuracy: +/- 50: +/- 0.5% (of the entire measuring range)
  at +20°C 500 : +/-0.25% (of the entire measuring range)
  2000 : +/- 0.5% (of the total measuring range)
- Offset drift: < 2 Pa / year (with automatic zero adjustment)
- Configuration: only possible via device keyboard!
### PascalMaxx

**PascalMaxx 50 Z (bidirectional)**

260 0955

- Large LCD display on instrument
- Configuration via menu system incl. Alarm/Control
- scalable analog outputs 0..10V / 4..20mA
- Relay alarm/switching output 230V / 2A

**Technical data:**
- Measuring range: -50 to +50 Pa (bidirectional)
- 1 adjustable threshold value
- 1 analog output U/I
- Power supply: 19.2 ... 28.8 VDC
- Power consumption max. 2 Watt
- Relay contact: 230V, 2 A
- Weight: approx. 200 gr

**PascalMaxx 500 Z (unidirectional)**

260 0091

- Large LCD display on instrument
- Configuration via menu system incl. Alarm/Control
- scalable analog outputs 0..10V / 4..20mA
- Relay alarm/switching output 230V / 2A

**Technical data:**
- Measuring range: 0 ... 500 Pa (unidirectional)
- 1 adjustable threshold value
- 1 analog output U/I
- Power supply: 19.2 ... 28.8 VDC
- Power consumption max. 2.5 Watt
- Relay contact: 230V, 2 A
- Weight: approx. 200 gr

**PascalMaxx 2000 Z (unidirectional)**

260 0083

- Large LCD display on instrument
- Configuration via menu system incl. Alarm/Control
- scalable analog outputs 0..10V / 4..20mA
- Relay alarm/switching output 230V / 2A

**Technical data:**
- Measuring range: 0 ... 2000 Pa (unidirectional)
- 1 adjustable threshold value
- 1 analog output U/I
- Power supply: 19.2 ... 28.8 VDC
- Power consumption max. 2.5 Watt
- Relay contact: 230V, 2 A
- Weight: approx. 200 gr

**Accessories**

**External power supply unit EU/US/JP plug**

252 4210

External power supply primary side for a voltage range from 90 to 264 VAC with variable plug insert for EUR / US / JP.

On the secondary side it can be connected directly to all PascalMaxx types.

**Technical data:**
- Primary side: Voltage range 100 ... 240VAC
- Secondary side: Voltage 24V DC +/- 5%
- Weight: 90 gr

**Factory calibration at 3 measuring points**

260 0091

- Relay alarm/switching output 230V / 2A
- Large LCD display on instrument
- Configuration via menu system incl. Alarm/Control
- scalable analog outputs 0..10V / 4..20mA

**Technical data:**
- Measuring range: 0 ... 500 Pa (unidirectional)
- 1 adjustable threshold value
- 1 analog output U/I
- Power supply: 19.2 ... 28.8 VDC
- Power consumption max. 2.5 Watt
- Relay contact: 230V, 2 A
- Weight: approx. 200 gr

**Replacement plug set for PascalMaxx**

260 0096

Replacement connector set for PCB to PascalMaxx for power supply and analog outputs.

**Technische Daten:**
- Ersatzstecker Set PascalMaxx:
- Stecker: 2 Pol. Speisung
- 3 Pol. Relais
- 4 Pol. Analogausgang
- Gewicht: Total 20 g

**Filter set**

260 0097

Protective filter for applications with high dirt loads.

The tubing can be attached to the connection nipples using the respective hose connector and the hose section with built-in filter.