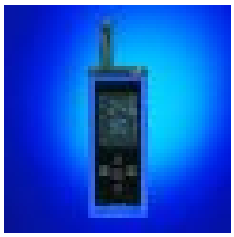
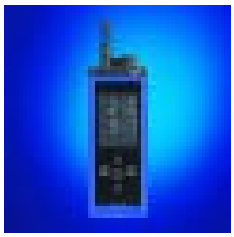
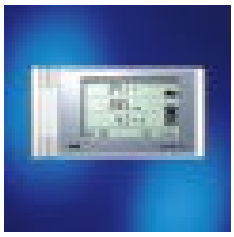
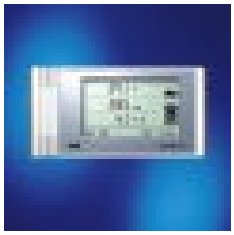
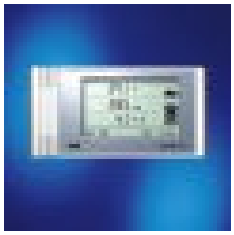
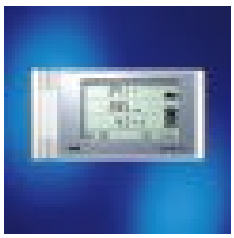
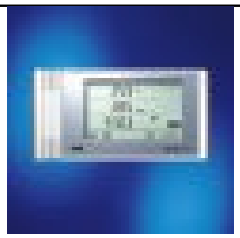
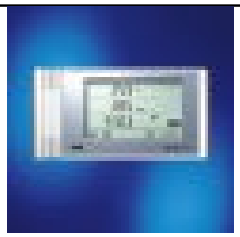
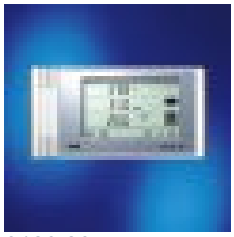
LUFFT TEMPERATŪROS, SANTYKINĖS DRĖGMĖS IR CO_2 MATAVIMO PRIETAISAI

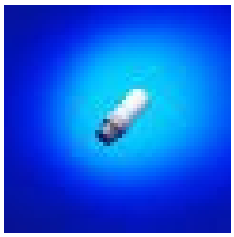
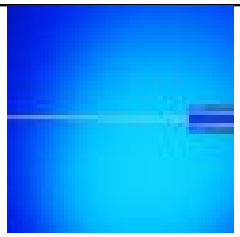
Eil. Nr.	Pavadinimas	Aprašymas
1.	 5810.10 Hand-held Measuring Device XP101 Measurement of Temperature The most accurate handheld device (0.005°C) for temperature. Ideal as reference standard. Excellent stability through	**Description:** High-precision reference measurement standard for industrial temperature calibrations. Suitable as temperature reference in block calibrators, climate chambers or liquid baths. Mini USB interface with software, online data collection. **Supplementary description:** The most accurate handheld device (0.005°C) for temperature. Ideal as reference standard. Excellent stability through multiple annealing cycles. Sensor characteristic curve is determined individually and is saved in the device. Integrated root 2 function for determination of the sensor self-heating, plus automatic elimination of parasitic thermovoltage. For traceability to national standards a DAkkS calibration certificate is attached. For more information visit the product page of our Lufft XP series **Special features:** • 0.005°C accuracy • High quality wooden case, PT100 ceramic sensor, 2m cable, batteries and DAkks calibration certificate are included in delivery Download - product data sheet
2.	 5810.20 Hand-held measuring device XP201 Measurement of Relative Humidity, Temperature The most accurate handheld device (0.5%) for relative humidity. Ideal as reference standard. Excellent stability, very good	**Description:** High-precision reference measurement standard for industrial humidity calibrations. Suitable as humidity reference in climate chambers or humidity generators. Mini USB interface with software, online data collection. **Supplementary description:** The most accurate handheld device (0.5%) for relative humidity. Ideal as reference standard. Excellent stability, very good repeatable measurements, absolute hysteresis latitude as well as no drift of the measurement value at very high humidity levels. For traceability to national standards a DAkkS calibration certificate is attached. For more information visit the product page of our Lufft XP series **Special features:** • 0.5% accuracy • High quality wooden case, resistive-electrolytic sensor, 2m cable, batteries and DAkks calibration certificate are included in delivery Download - product data sheet
3.	 5900.00 Hand-held Measuring Device	**Description:** The most precice and flexible all-rounder instrument for professional applications-easy to handle and robust. Allows various intelligent sensors to be connected with automatic recognition, saves measuring campaignes, allows all climate data to be calculated and archieved on a computer for further evaluation by SmartGraph3 software.

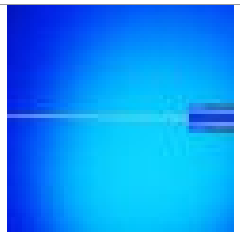
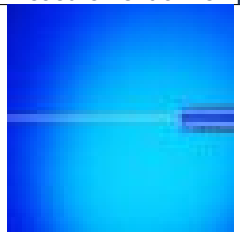
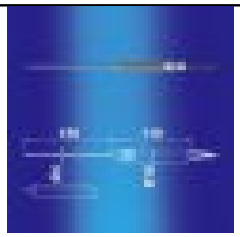
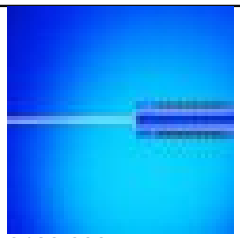
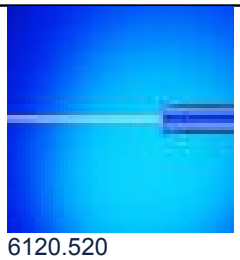
	XA1000 “All-in-ONE” “All-rounder” in the measurement technology segment. A universal measuring device for professionals with the inclusion	**Supplementary description:** “All-rounder” in the measurement technology segment. A universal measuring device for professionals with the inclusion of exchangeable SDI Sensors. Highly precise measurements of temperature and relative humidity. Integrated air pressure sensor, online/offline data recording. Equipped with test certificate, can be calibrated. Scope of delivery includes transport case. For more information visit the product page of our Lufft X-Series Download - product data sheet
4.	 5700.00 Hand-held measuring device XC200 Measurement of Relative humidity, Temperature	**Description:** The powerful and compact handheld device with state-of-the-art and robust design. Excellent accuracy. The high-resolution color screen displays rel. humidity, temperature and dew point. Excellent readability. The calibration function (offset correction) guarantees the long-term use without compromising the accuracy. **Supplementary description:** Excellent accuracy of temperature and relative humidity. Display of calculations and statistical functions. Adjustment of local pressure and local height possible. Calibration function and offset correction. Including a calibration certificate. USB interface with SmartGraph3 software. Additional product information under http://www.lufft-xseries.com Download - product data sheet
5.	 5725.00 Hand-held measuring device XC250 pyrometer Measurement of Relative humidity, Temperature, Surface temperature •	**Description:** The powerful and compact handheld device with state-of-the-art and robust design. Excellent accuracy. The high-resolution color screen displays rel. humidity, temperature and dew point. Excellent readability. The calibration function (offset correction) guarantees the long-term use without compromising the accuracy. **Supplementary description:** Excellent accuracy of temperature and relative humidity. Display of calculations and statistical functions. Adjustment of local pressure and local height possible. Calibration function and offset correction. Including a calibration certificate. USB interface with SmartGraph3 software. Additional product information under http://www.lufft-xseries.com **Special features:** Contact-free temperature measurement Download - product data sheet
6.	 5810.00 Hand-held measuring device XP100 Very exact temperature measuring device (+/-0.01°C). Ideal as a reference device and for	**Description:** High-precision hand-held device for PT100 temperature sensors. Suitable for measuring tasks requiring a high degree of precision. Mini USB port with software and online data collection. 25 languages available, accuracy is 0.01°C across the full measuring range. Solely for use with PT100 sensors. **Supplementary description:** Very exact temperature measuring device (+/-0.01°C). Ideal as a reference device and for comparison measurements in service or as part of ISO9000 tasks. We recommend a DAkkS calibration certifi cate for traceability to international

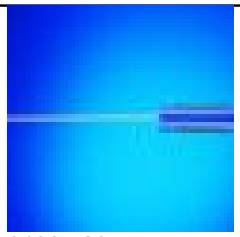
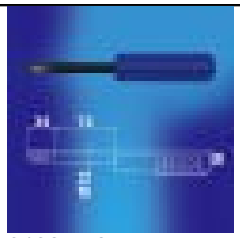
	comparison measurements in service	standards. For more information visit the product page of our Lufft XP series Download - product data sheet
7.	 5820.00 Hand-held measuring device XP200 Temperature and humidity measuring device compatible with various intelligent sensors.	**Description:** X-pert range for humidity and temperature measurements in climate and environmental technology. **Supplementary description:** Temperature and humidity measuring device compatible with various intelligent sensors. For more information visit the product page of our Lufft XP series Download - product data sheet
8.	 5840.00 Hand-held measuring device XP200 The X-pert for precise airflow measurements on various measurement ranges.	**Description:** X-pert range for humidity and temperature measurements in climate and environmental technology. **Supplementary description:** Temperature and humidity measuring device compatible with various intelligent sensors. For more information visit the product page of our Lufft XP series Download - product data sheet
9.	 8120.00 OPUS20 THI Measurement of Temperature, Relative humidity	**Description:** For climate monitoring in buildings and the control of all climate-sensitive production processes: in electronic data-processing centres, control cabinets, wind turbines, storage rooms and museums. **Supplementary description:** The Opus20 runs on batteries or powered via USB. Alternatively, you have the possibility to power the device via POE (Power over Ethernet). **Special features:** • The only LAN datalogger with built-in sensors and the highest precision! • Firmware online updatable Download - product data sheet

10.	 8120.00N OPUS 20 THI (Neutral) Measurement of Temperature, Relative humidity	**Description:** For climate monitoring in buildings and the control of all climate-sensitive production processes: in electronic data-processing centres, control cabinets, wind turbines, storage rooms and museums. **Supplementary description:** The Opus20 runs on batteries or powered via USB. Alternatively, you have the possibility to power the device via POE (Power over Ethernet). **Special features:** • The only LAN datalogger with built-in sensors and the highest precision! • Firmware online updatable Download - product data sheet
11.	 8120.01 OPUS 20 THI,PoE Measurement of Temperature, Relative humidity	**Description:** For climate monitoring in buildings and the control of all climate-sensitive production processes: in electronic data-processing centres, control cabinets, wind turbines, storage rooms and museums. **Supplementary description:** The Opus20 runs on batteries or powered via USB. Alternatively, you have the possibility to power the device via POE (Power over Ethernet). **Special features:** • The only LAN datalogger with built-in sensors and the highest precision! • Firmware online updatable Download - product data sheet
12.	 8120.01N OPUS 20 THI,PoE (Neutral) Measurement of Temperature, Relative humidity	**Description:** For climate monitoring in buildings and the control of all climate-sensitive production processes: in electronic data-processing centres, control cabinets, wind turbines, storage rooms and museums. **Supplementary description:** The Opus20 runs on batteries or powered via USB. Alternatively, you have the possibility to power the device via POE (Power over Ethernet). **Special features:** • The only LAN datalogger with built-in sensors and the highest precision! • Firmware online updatable Download - product data sheet
13.	 8120.10 OPUS 20 THIP Measurement of Temperature, Relative humidity, Air pressure	**Description:** Finally available: Lufft's precise weather station for interior applications **Supplementary description:** An essential data collector for all calibration laboratories. Download - product data sheet

14.	 8120.10N OPUS 20 THIP (Neutral) Measurement of Temperature, Relative humidity, Air pressure	**Description:** Finally available: Lufft's precise weather station for interior applications **Supplementary description:** An essential data collector for all calibration laboratories. Download - product data sheet
15.	 8120.11 OPUS 20 THIP,PoE Measurement of Temperature, Relative humidity, Air pressure	**Description:** Finally available: Lufft's precise weather station for interior applications **Supplementary description:** An essential data collector for all calibration laboratories. Download - product data sheet
16.	 8120.11N OPUS 20 THIP,PoE (Neutral) Measurement of Temperature, Relative humidity, Air pressure	**Description:** Finally available: Lufft's precise weather station for interior applications **Supplementary description:** An essential data collector for all calibration laboratories. Download - product data sheet
17.	 8120.20 OPUS 20 TCO Measurement of Temperature, Relative humidity, CO2	**Description:** The amount of carbon dioxide had been virtually constant at 280 ppm (particles per million) – i.e 280 gas molecules per million air molecules – the last ten thousand years. However in recent years, this measured value has been increasing rapidly at approx. 2 % per year. **Supplementary description:** A high level of CO 2 in the air within a room causes headaches, tiredness and lack of concentration. The regulation on CO 2 concentration was established in order to evaluate IAQ (Indoor Air Quality). Normal atmospheric air in so-called 'clean air areas' has a level of 360 ppm and approx. 500 ppm in urban areas. The limit of 1,000 ppm ("Pettenkofer Figure") is still seen as being adequate indoor-air quality, which is especially important when regarding all meetings and conference rooms, as well as schools and open-plan offi ces. As a guideline for school rooms in the USA the limit of 1,000 ppm applies; for workplaces the occupational exposure limit is 5,000 ppm. Download - product data sheet
18.	 8120.20N OPUS 20 TCO (Neutral) Measurement of Temperature, Relative humidity, CO2	**Description:** The amount of carbon dioxide had been virtually constant at 280 ppm (particles per million) – i.e 280 gas molecules per million air molecules – the last ten thousand years. However in recent years, this measured value has been increasing rapidly at approx. 2 % per year. **Supplementary description:** A high level of CO 2 in the air within a room causes headaches, tiredness and lack of concentration. The regulation on CO 2 concentration was established in order to evaluate IAQ (Indoor Air Quality). Normal atmospheric air in so-called 'clean air areas' has a level of 360 ppm and approx. 500 ppm in urban areas. The limit of 1,000 ppm ("Pettenkofer Figure") is still seen as being adequate indoor-air quality, which is especially important when regarding all meetings and conference rooms, as well as schools and open-plan offi ces. As a guideline for school rooms in the USA the limit of 1,000 ppm applies; for workplaces the occupational exposure limit is 5,000 ppm.

		Download - product data sheet
19.	 8120.21 OPUS 20 TCO.PoE (Neutral) Measurement of Temperature, Relative humidity, CO2	**Description:** The amount of carbon dioxide had been virtually constant at 280 ppm (particles per million) – i.e 280 gas molecules per million air molecules – the last ten thousand years. However in recent years, this measured value has been increasing rapidly at approx. 2 % per year. **Supplementary description:** A high level of CO 2 in the air within a room causes headaches, tiredness and lack of concentration. The regulation on CO 2 concentration was established in order to evaluate IAQ (Indoor Air Quality). Normal atmospheric air in so-called 'clean air areas' has a level of 360 ppm and approx. 500 ppm in urban areas. The limit of 1,000 ppm ("Pettenkofer Figure") is still seen as being adequate indoor-air quality, which is especially important when regarding all meetings and conference rooms, as well as schools and open-plan offi ces. As a guideline for school rooms in the USA the limit of 1,000 ppm applies; for workplaces the occupational exposure limit is 5,000 ppm. Download - product data sheet
20.	 8120.21N OPUS 20 TCO.PoE (Neutral) Measurement of Temperature, Relative humidity, CO2	**Description:** The amount of carbon dioxide had been virtually constant at 280 ppm (particles per million) – i.e 280 gas molecules per million air molecules – the last ten thousand years. However in recent years, this measured value has been increasing rapidly at approx. 2 % per year. **Supplementary description:** A high level of CO 2 in the air within a room causes headaches, tiredness and lack of concentration. The regulation on CO 2 concentration was established in order to evaluate IAQ (Indoor Air Quality). Normal atmospheric air in so-called 'clean air areas' has a level of 360 ppm and approx. 500 ppm in urban areas. The limit of 1,000 ppm ("Pettenkofer Figure") is still seen as being adequate indoor-air quality, which is especially important when regarding all meetings and conference rooms, as well as schools and open-plan offi ces. As a guideline for school rooms in the USA the limit of 1,000 ppm applies; for workplaces the occupational exposure limit is 5,000 ppm. Download - product data sheet
21.	 8900.UTFF MARWIS Temperature Humidity Sensor	**Description:** Detects the temperature as well as the relative humidity above the road surface and can be replaced easily. It is meant as spare part for both MARWIS versions. In order to keep the temperature/humidity measurements precise it is recommended to replace it with a new one once a year. **Special features:** • Replaceable sensor combining temperature humidity measurement suitable for MARWIS. Download - product data sheet
22.	 3120.520 PT100 plunge sensor, short Measurement of Temperature	**Description:** The immersion probe is suitable for measurements in gaseous media, liquids and granular material, such as sand. Download - product data sheet

23.	 3120.530 PT100 plunge sensor, long Measurement of Temperature	**Description:** The immersion probe is suitable for measurements in gaseous media, liquids and granular material, such as sand. Download - product data sheet
24.	 3120.540 PT100 plunge sensor, long Measurement of Temperature	**Description:** This high-precision immersion probe in stainless steel protective housing can also be used as a reference sensor for calibration and testing systems. Download - product data sheet
25.	 3120.550 PT100 plunge sensor out of stainless steel for foodstuffs Measurement of Temperature	**Description:** Food probe in stainless steel protective casing for precise temperature measurements (PT100 1/10 class B). Download - product data sheet
26.	 3120.600 PT100 surface sensor Measurement of Temperature	**Description:** At the head of the surface temperature probe is a spring-loaded sensor which takes the temperature. Can be used on flat, matt and metallic surfaces. Download - product data sheet
27.	 6120.510 SDI Airflow-/Temperature Sensor (0…2m/s) Measurement of Temperature, Flow	**Description:** Reference device for airflow and temperature measurements in service and maintenance. Proof of air tightness of buildings and rooms. Download - product data sheet
28.	 6120.520 SDI Airflow-/Temperature Sensor (0…20m/s) Measurement of Temperature, Flow	**Description:** Application: airflow and temperature measurements in climate measurement technology. Download - product data sheet

29.	 9130.520 SDI Temperature-/Humidity Sensor with 4mm Diameter Measurement of Temperature, Relative Humidity	**Description:** Compact, slim temperature-/humidity sensor in stainless steel protective tube. With a diameter of only 4mm, the sensor is suitable for applications in measurement areas that are diffi cult to access. Download - product data sheet
30.	 9130.530 SDI High Temperature-/Humidity Sensor Measurement of Temperature, Relative Humidity	**Description:** Stainless steel sensor equipped with a Teflon probe is especially suitable for high temperature/humidity measurements. Download - product data sheet
31.	 9130.540 Allround SDI Temperature/Humidity Sensor Measurement of Temperature, Relative Humidity	**Description:** Compact temperature-/humidity sensor, in plastic tube. Application in HVAC field, reference measurement in accordance with ISO9000 Quality Assurance Download - product data sheet
32.	 3560.00 Infrared-Thermometer, electronic Measurement of Surface temperature, Temperature (K-type thermocouple input)	**Supplementary description:** Non-contact measurement with input for thermocouple probes type K Large display area: simultaneous display of reading and max/min or alarm With laser sighting and backlight Wide temperature range HOLD-,MAX-,MIN-,DIF-,AVG-function Adjustable emissivity Alarm function, audible and optical Lockmode for continuous measurements **Special features:** • Large display • Background lighting • Adjustable emission ratio
33.	 9130.BT Hand Held Device A1-SDI Bluetooth	**Description:** Multi-talented measurement technology with digital sensor interface and Bluetooth function **Supplementary description:** Instead of many measuring instruments for individual tasks, with the A1-SDI you now need only one measuring instrument for many tasks! Excellent readability, illuminated display, Hold, MAX, MIN, average value, REC and automatic switch-off function, THUMB-WHEEL operation, real time clock, °C/°F switchable, data transfer via Bluetooth with data valuation in SmartGraph 2 (included in delivery)

34.	 5608.00 T/RH probe Measurement of Relative humidity, Temperature	**Description:** Measurement of Temperature and Relative Humidity of environmental air, determination of dewpoint, saturation pressure, vapour pressure, saturation deficit and absolute humidity
35.	 5610.07 Transmitter EX-proof Measurement of Relative humidity, Temperature	**Supplementary description:** The humidity/temperature transmitter has been designed specifically for measurement in explosion hazard areas. It complies with the classifications for Europe (ATEX), International (IECEx) and USA / Canada (FM). Accurate measurement over the full range of 0…100 % RH and -40…180 °C (-40...356 °F) is also possible in applications under pressure from 0.01 … 300 bar (4351 psi). **Special features:** • Approved for gas and dust • Installation in zone 0 / Div. 1 • Calculation of related physical quantities • Stainless steel housing and probe • Highest accuracy up to 180 °C (356 °F) • Pressure tight up to 300 bar (4351 psi)
36.	 5615.20 Transmitter 4...20mA Measurement of Relative humidity, Temperature	**Supplementary description:** The transmitter meets the highest requirements in demanding climate control applications. Besides highly accurate measurement of relative humidity and temperature, it calculates dew point temperature, absolute humidity and mixing ratio.
37.	 5615.30 Transmitter 4...20mA Measurement of Relative humidity, Temperature	**Supplementary description:** The transmitter meets the highest requirements in demanding climate control applications. Besides highly accurate measurement of relative humidity and temperature, it calculates dew point temperature, absolute humidity and mixing ratio

38.	 5616.00 Transmitter 4...20mA Measurement of Relative humidity, Temperature • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display	**Supplementary description:** Type 5616.xx measurement transmitters stand for multi-functionality, highest accuracy and simple installation and maintenance. The new housing complies with Protection Class IP65 and consists of 3 modules: - the base with the connections - the middle section with the electronics and sensor unit - the cover with optional viewing window for the display The 3-part housing facilitates simple installation and fast exchange of the sensor unit for service purposes. The model with remote sensor is designed for measurements from -40...120°C. Excellent long-term stability. Smallest hysteresis. Excellent resistance to chemical attack. Field calibration is very easy to carry out, with the aid of two keys, at two freely selectable humidity points. On-site calibration of the entire measurement chain is also possible, in accordance with FDA directives. **Special features:** • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display
39.	 5616.10 Measurement transducer 4...20mA with display Measurement of Relative humidity, Temperature • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display	**Supplementary description:** Type 5616.xx measurement transmitters stand for multi-functionality, highest accuracy and simple installation and maintenance. The new housing complies with Protection Class IP65 and consists of 3 modules: - the base with the connections - the middle section with the electronics and sensor unit - the cover with optional viewing window for the display The 3-part housing facilitates simple installation and fast exchange of the sensor unit for service purposes. The model with remote sensor is designed for measurements from -40...120°C. Excellent long-term stability. Smallest hysteresis. Excellent resistance to chemical attack. Field calibration is very easy to carry out, with the aid of two keys, at two freely selectable humidity points. On-site calibration of the entire measurement chain is also possible, in accordance with FDA directives. **Special features:** • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display
40.	 5616.20 Transmitter 4...20mA Measurement of Relative humidity, Temperature • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display	**Supplementary description:** Type 5616.xx measurement transmitters stand for multi-functionality, highest accuracy and simple installation and maintenance. The new housing complies with Protection Class IP65 and consists of 3 modules: - the base with the connections - the middle section with the electronics and sensor unit - the cover with optional viewing window for the display The 3-part housing facilitates simple installation and fast exchange of the sensor unit for service purposes. The model with remote sensor is designed for measurements from -40...120°C. Excellent long-term stability. Smallest hysteresis. Excellent resistance to chemical attack. Field calibration is very easy to carry out, with the aid of two keys, at two freely selectable humidity points. On-site calibration of the entire measurement chain is also possible, in accordance with FDA directives. **Special features:** • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display

41.	 5616.30 Measurement transducer 4...20mA with display Measurement of Relative humidity, Temperature • For wall-mounting or duct installation • For demanding applications • Sensor technology gives long-term stability • With and without display	**Supplementary description:** Type 5616.xx measurement transmitters stand for multi-functionality, highest accuracy and simple installation and maintenance. The new housing complies with Protection Class IP65 and consists of 3 modules: - the base with the connections - the middle section with the electronics and sensor unit - the cover with optional viewing window for the display The 3-part housing facilitates simple installation and fast exchange of the sensor unit for service purposes. The model with remote sensor is designed for measurements from -40...120°C. Excellent long-term stability. Smallest hysteresis. Excellent resistance to chemical attack. Field calibration is very easy to carry out, with the aid of two keys, at two freely selectable humidity points. On-site calibration of the entire measurement chain is also possible, in accordance with FDA directives. **Special features:**