

# nilotech



## Nilotech Product Range

Quality control instrumentation  
for specialized laboratories.

Version: 11/2024



# Save Precious Time on Quality and Process Control



*"When I use my NiloChecker, it is easy and fast to control gas and temperature in incubators. I simultaneously measure both parameters and quickly move to another incubator; the unit even saves all measurements. I always bring the NiloChecker into our various laboratories - it's easy to carry around and super accurate.*

**A true all-in-one device."**

## **Kirsten Simonsen, MSc**

Laboratory manager, senior embryologist  
Maigaard Fertilitetsklinik

# Innovative, Exceptional and Dependable



*"I am extremely satisfied with my NiloChecker tablet and sensor collection. In my experience, Nilotech is a passionate and engaged company that is committed to quality and their customers, and their Nilochecker product line clearly reflects this.*

*Despite being a high-performance tool, the Nilochecker is approachable, straightforward, and easy to use. It is robust and well-adapted to its lab application, and key design features help facilitate and ensure correct and accurate use. In cases where shortcomings have come up in specific end-use scenarios, Nilotech has welcomed the end-user feedback and worked to address them. They are continually refining and improving their designs and also coming up with new offerings. I am always excited to see these new items and put them to use in the field.*

*My own NiloChecker kit goes with me everywhere. Its accuracy, reliability, and utility are unparalleled and make it indispensable. Whether it's in my carry-on for the plane or in my pack for a local service visit, it's always in my bag and ready for use. Having used my Nilochecker extensively in the past few years, I can't imagine working without it now. It is an excellent tool that I depend on and use with confidence. Thank you, Nilotech!"*

## **Tim Carter, PhD**

Scientific and technical director  
Fertitech Canada



## NiloChecker 500

### One reference instrument - many applications

The new all-in-one instrument made by lab equipment specialists. NiloChecker guides you through control and calibration of critical equipment in your laboratory. No need for multiple instruments from various manufacturers. With the NiloChecker you can control and calibrate Incubators, IVF workstations, warming system etc. An increasing range of measurement probes ensures your investment in years to come.



### Functions & Technology

#### Time saving

Save precious time on process and quality control. Perform up to 10 simultaneous measurements. For instance, check your incubator for CO<sub>2</sub>, O<sub>2</sub>, and Temperature at the same time.

#### Easy as 1-2-3

A large touch screen with intuitive software guides you through the measurement. It helps you to perform measurements in accordance with international standards and manufacturers recommendations.

#### Integrated documentation

The Add-to-table function helps you processing and organizing data from many measurements.

#### Long battery life

Just bring the NiloChecker around. The high capacity battery ensures hours of measurement time between charging.

#### No need for calibration

The instrument is fully digital and will never need calibration. The instrument stays in the lab and measurement probes can be controlled and calibrated separately.

#### Compatible sensors

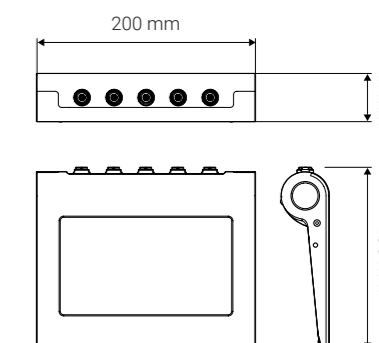
Compatible with CO<sub>2</sub>, O<sub>2</sub>, temperature, and air velocity sensors. simultaneous measurements up to 10 sensors on 5 ports.

#### Integrated functions

Graph function: Important tool to track any measurement. Instant measuring: Instrument starts to measure once a probe is connected. Timer function: Start/Stop allows to measure in a predefined time. Calculations: Max, Min, Average, Moving average, Deviation from average. Easy to collect data from multiple sensors.

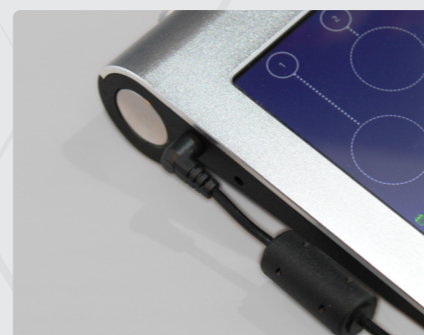
### Specifications

|                                   |   |
|-----------------------------------|---|
| <b>Measure range and accuracy</b> | Depends on connected probe                                      |
| <b>Display and Touch</b>          | 7" - 800 x 480 pixel - Capacitive touch - Adjustable brightness |
| <b>Data storage and export</b>    | Internal memory. - Export data to PC via USB                    |
| <b>Compliance</b>                 | ISO/EN 61010:2010 - IEC 60950-1:2005/ - AMD2:2013 - CE          |
| <b>Operating conditions</b>       | 0-50 °C - 5-95% RH, IP50  |
| <b>Power supply</b>               | 12 V/30 W - Wall plug adaptor - 100-240 V                       |
| <b>Connectors</b>                 | 5 Pcs - Stainless steel with lock and quick release             |
| <b>Battery time</b>               | 8 Hours - Level displayed in %                                  |
| <b>Charging Time</b>              | < 3 hours   |



#### Ordering info

Part no: 111s001 - NiloChecker 500  
Part no: 111s002 - NiloChecker 500 WiFi



# Probe Compatibility Table



The below table show the compatibility of NiloChecker probes with specific equipment brands and models. Nilotech has performed extensive validation of our solution together with equipment manufactures and/or end users. Correct use of equipment is imperative for correct results, and Nilotech encourages all users to contact us with questions and requests for training.

| Target                | Box-type Incubator   | Cook Minc   | ESCO MIRI/TL   | K-Systems G185                                     | K-Systems G210   | Origio/Planer BT37                                    | Vitrolife EmbryoScope/<br>EmbryoScope+             | IVF workstation.                                      | ICSI station                        | Warming Blocks/<br>Heaters |
|-----------------------|--|---|--|--|--|---|--|---|-------------------------------------|----------------------------|
| <b>Nilotech probe</b> |  |   |  |  |  |   |  |   |                                     |                            |
| <br>DG126<br>Page 7   | CO <sub>2</sub> and O <sub>2</sub> via chamber sample port |   | CO <sub>2</sub> and O <sub>2</sub> via chamber sample port | CO <sub>2</sub> and O <sub>2</sub> via sample port | CO <sub>2</sub> and O <sub>2</sub> via sample port in chamber lid  |   | CO <sub>2</sub> and O <sub>2</sub> via sample port |   |                                     |                            |
| <br>DG112<br>Page 8   | CO <sub>2</sub> and O <sub>2</sub> inside chamber          |   | CO <sub>2</sub> and O <sub>2</sub> inside chamber          |  |  |   |  |   |                                     |                            |
| <br>DG122<br>Page 9   |  | CO <sub>2</sub> and O <sub>2</sub> output from filter | CO <sub>2</sub> and O <sub>2</sub> via chamber sample port |  | CO <sub>2</sub> and O <sub>2</sub> via external monitoring chamber | CO <sub>2</sub> and O <sub>2</sub> output from filter |  |   |                                     |                            |
| <br>DT121<br>Page 10  |  | Top and bottom temperature in one chamber             |  |  |  | Top and bottom temperature in one chamber             |  |   |                                     |                            |
| <br>DT112<br>Page 11  | Shelf temperature  | Bottom temperature one chamber                        |  |  |  |   |  | Surface temperature heated table top                  |                                     |                            |
| <br>DT122<br>Page 12  | Shelf Temperature 2 positions                              | Bottom Temperature two chambers                       |  |  |  |   |  | Surface temperature heated table top, 2 positions     |                                     |                            |
| <br>PT120<br>Page 13  |  |   |  |  |  |   | Chamber temperature                                | Temperature on heated stage                           | Airstream temperature in RI Integra |                            |
| <br>DT123<br>Page 14  | Temperature inside dish or test tube                       | Temperature inside dish in chamber                    |  |  |  |   |  | Temperature on heated stage or inside dish            |                                     | Temperature in test tube   |
| <br>PT123<br>Page 15  | Air temperature or Temperature in test tube                |   |  |  |  | Chamber temperature in side-port                      |  | Temperature in test tube                              |                                     | Temperature in test tube   |
| <br>DH140<br>Page 16  | Humidity inside incubator chamber                          | Humidity inside incubator chamber                     | Humidity inside incubator chamber                          |  |  | Humidity inside incubator chamber                     |  | Environmental humidity or humidity inside workstation |                                     |                            |
| <br>DLV119<br>Page 17 |  |   |  |  |  |   |  | Laminar airflow measurements and calculations         |                                     |                            |





DG126  
**Digital CO<sub>2</sub>/O<sub>2</sub> probe with pump**

The DG126 Digital CO<sub>2</sub>/O<sub>2</sub> probe with pump represents a significant advancement in incubation monitoring technology. Its compact design and broad compatibility make it an ideal choice for managing both box-type and desktop incubators.

**Functions & Technology**

**Dual measurements**

Connect the flexible tubing to a sample port or use the sample needle to sample from narrow openings. Start the pump from the NiloChecker device, and it measures CO<sub>2</sub> and O<sub>2</sub> simultaneously.

**Flexible design**

The probe can be placed near- or on- the target device to minimize tubing length. Short tubing minimizes measurement time and usage of gas.

**Ease of use**

Connect up to 5 DG126 probes simultaneously. With the NiloChecker in your hand, you can start/stop measurements, monitor progress and store readings for later analysis.

**Output data**

CO<sub>2</sub> and O<sub>2</sub> in %. The NiloChecker calculates and maps data including min., average, and max. values from several measurement sessions. See NiloChecker product sheet for more information about exporting measurement data.



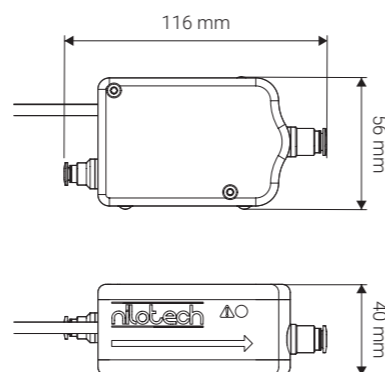
**Specifications**

|  |  |
|--|--|
| <b>Sensors</b>                             | NDIR (CO <sub>2</sub> ), Electro-chemical (O <sub>2</sub> )  |
| <b>Measure range</b>                       | 0 - 30% O <sub>2</sub> /0 - 12% CO <sub>2</sub>  |
| <b>Accuracy</b>                            | 0,2% O <sub>2</sub> , 0,1% CO <sub>2</sub> ±3% of reading  |
| <b>T90</b>                                 | < 20 sec. (O <sub>2</sub> ), < 15 sec. (CO <sub>2</sub> )  |
| <b>Compensation for ambient conditions</b> | Temperature (20 - 40 °C), altitude (700 - 1100 mbar)   |
| <b>Pump flow</b>                           | 100 - 150 ml/min   |
| <b>Display resolution and update</b>       | 0,1%, one update per sec.  |
| <b>Cable length</b>                        | 2 m  |
| <b>Tube fitting</b>                        | Luer-lock as standard. Other 1/8" fittings optional.   |
| <b>Compliances</b>                         | CE with NiloChecker 500. RoHs.   |
| <b>Calibration</b>                         | Delivered with factory calibration certificate..<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |
| <b>Operating conditions</b>                | 0 - 50 °C, 5 - 95% RH (Non condensing)   |



**Ordering info**

**Part no: 126s001** - DG126 Digital CO<sub>2</sub>/O<sub>2</sub> probe with pump. Delivered with factory calibration certificate.  
**Part no: 800s004** - Calibration of Nilotech gasprobe incl. factory and gas certificates



**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
126d001\_11/2024



DG112  
**Digital CO<sub>2</sub>/O<sub>2</sub> probe**

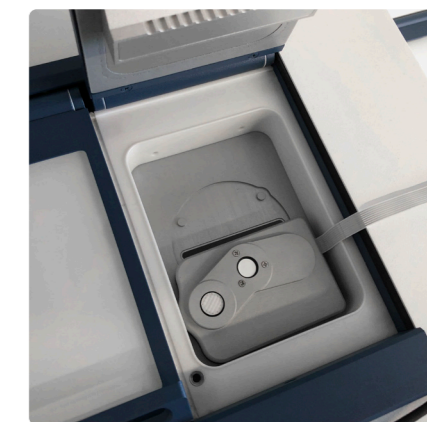
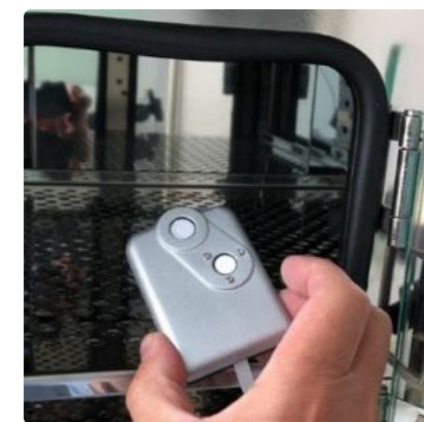
The challenge of measuring gas concentrations within incubators is indeed complex, particularly due to the potential for disturbance to the incubator's environment caused by gas aspiration. The precision of gas measurement is crucial in applications such as cell culture, where maintaining an environment that closely mimics in vivo conditions is essential for cell growth and reproduction.

**Functions & Technology**

**CO<sub>2</sub>/O<sub>2</sub> probe**

The Digital Carbon Dioxide (CO<sub>2</sub>) and Oxygen (O<sub>2</sub>) probe represents a significant advancement in incubator control technology. Its innovative flat design make it an ideal choice for a variety of laboratory settings, including desktop incubators.

This probe enables continuous monitoring of CO<sub>2</sub> and O<sub>2</sub> levels, which is crucial for maintaining the optimal environment for cell cultures and other sensitive biological samples.



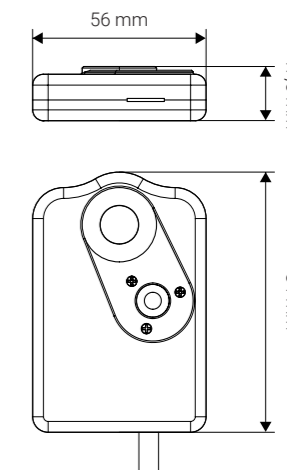
**Specifications**

|  |   |
|--|---|
| <b>Sensors</b>                             | NDIR (CO <sub>2</sub> ), Electro-chemical (O <sub>2</sub> )   |
| <b>Measure range</b>                       | 0 - 30% O <sub>2</sub> /0 - 12% CO <sub>2</sub>   |
| <b>Accuracy</b>                            | 0,2% O <sub>2</sub> , 0,1% CO <sub>2</sub> ± 3% of reading  |
| <b>T90</b>                                 | < 20 sec. (O <sub>2</sub> ), < 15 sec. (CO <sub>2</sub> )   |
| <b>Compensation for ambient conditions</b> | Temperature (20 - 40 °C), altitude (700 - 1100 mbar)  |
| <b>Display resolution and update</b>       | 0,1%, one update per sec.   |
| <b>Cable length</b>                        | 2 m   |
| <b>Compliances</b>                         | CE with NiloChecker 500. RoHs.  |
| <b>Calibration</b>                         | Delivered with factory calibration certificate..<br>Can be calibrated in accordance with ISO/IEC 17025. 0 - 50 °C,<br>Calibration requires adaptor. Part no: 115s001. |
| <b>Operating conditions</b>                | 5 - 95% RH (Non condensing)   |



**Ordering info**

**Part no: 112s003** - DG112 VFC (Very flat cable for desktop incubators) Delivered with Factory calibration certificate.  
**Part no: 800s004** - Calibration of Nilotech gasprobe incl. factory and gas certificates



**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
112d002\_11/2024



DG122  
**Digital flow-through CO<sub>2</sub>/O<sub>2</sub> probe**

The DG122 Digital CO<sub>2</sub>/O<sub>2</sub> probe is a state-of-the-art instrument designed for accurate gas analysis. Its cutting-edge technology allows for minimal flow resistance, which is essential for real-time monitoring in diverse applications.

**Functions & Technology**

**Dual measurements**

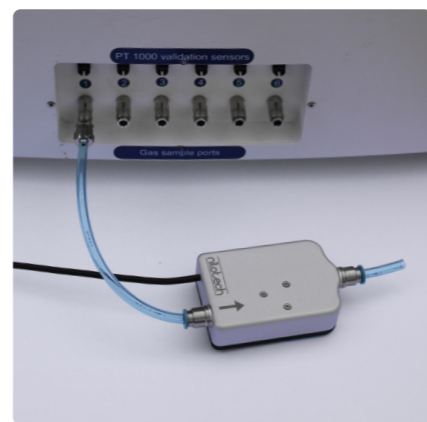
The DG122 is a sophisticated gas analyzer designed to measure CO<sub>2</sub> and O<sub>2</sub> levels simultaneously. To ensure accurate readings, it's essential to connect the DG122's input port to a gas sample port on the target device. If the target device has a return port, the DG122's output port should be connected there. For systems with high flow rates, flow restrictors can be utilized to minimize the sample flow, preventing potential measurement errors and ensuring the integrity of the gas analysis.

**Ease of use**

Connect up to 5 pcs DG122 probes simultaneously to each NiloChecker. You can start/stop measurements, monitor progress and store readings for later analysis.

**Output data**

CO<sub>2</sub> and O<sub>2</sub> in %. The NiloChecker calculates and maps data including min., average, and max. values from any measurement sessions. See NiloChecker specifications for more information.



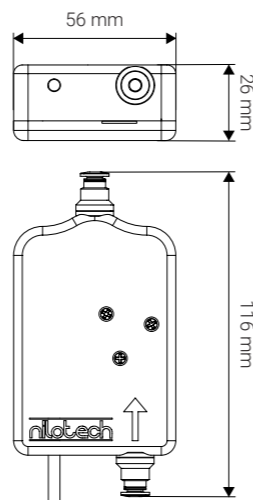
**Specifications**

|  |   |
|--|---|
| <b>Sensors</b>                             | NDIR (CO <sub>2</sub> ), Electro-chemical (O <sub>2</sub> )   |
| <b>Measure range</b>                       | 0 - 30% O <sub>2</sub> /0 - 12% CO <sub>2</sub>   |
| <b>Accuracy</b>                            | 0,2% O <sub>2</sub> , 0,1% CO <sub>2</sub> ±3% of reading   |
| <b>T90</b>                                 | < 20 sec. (O <sub>2</sub> ), < 15 sec. (CO <sub>2</sub> )   |
| <b>Compensation for ambient conditions</b> | Temperature (20 - 40 °C), altitude (700 - 1100 mbar)  |
| <b>Display resolution and update</b>       | 0,1%, one update per sec.   |
| <b>Cable length</b>                        | 2 m   |
| <b>Tube fittings</b>                       | 6 mm push-in as standard. Other 1/8" fittings optional.   |
| <b>Compliances</b>                         | CE with NiloChecker 500. RoHs.  |
| <b>Calibration</b>                         | Delivered with factory calibration certificate. Can be calibrated in accordance with ISO/IEC 17025. |
| <b>Operating conditions</b>                | 0 - 50 °C Calibration requires adaptor. Part no: 115s001. 0 - 40 °C, 5 - 95% RH (Non condensing)    |



**Ordering info**

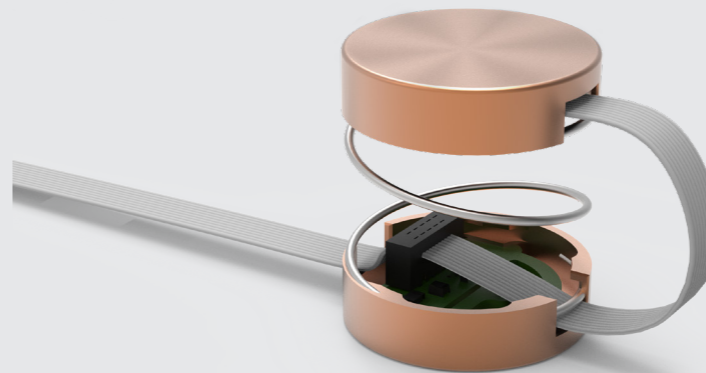
**Part no: 122s002** - DG122 Digital flow-through CO<sub>2</sub>/O<sub>2</sub> probe. Delivered with factory calibration certificate.  
**Part no: 122s002** - Calibration of Nilotech gas probe incl. factory and gas certificates.



**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
122d001\_11/2024



DT121  
**Up-Down digital temperature probe**

The DT121 Up-Down Digital Temperature Probe represents a significant advancement in precise temperature control of cell culture incubators. Its innovative design with a copper top and bottom, connected by a spring, ensures optimal thermal contact with both the chamber floor and lid. This dual-measurement capability allows for simultaneous monitoring of two critical points with a single device, streamlining the process and ensuring the integrity of the cell environment.

**Functions & Technology**

**Dual measurements**

Our unique Up-Down probe is ideal for controlling and calibrating desktop incubators through its 2 digital temperature sensors.

**Flexible design**

The probe can be placed on an incubator chamber floor, while the spring ensures good contact between upper sensor and lid.

**Ease of use**

We have made it possible for you to connect up to 5 probes in one NiloChecker. Controlling and calibrating desktop incubators has never been faster og easier.



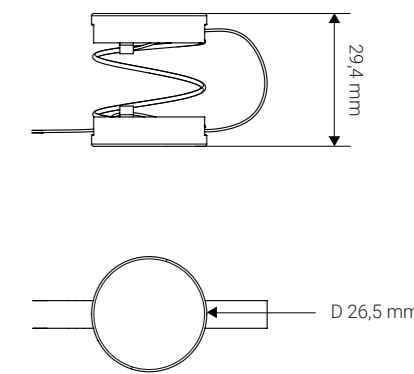
**Specifications**

|                                      |  |
|--------------------------------------|--|
| <b>Sensor type</b>                   | 2 x Digital temperature sensors  |
| <b>Measure range &amp; accuracy</b>  | -25 - 50 °C/0,03 °C accuracy possible.   |
| <b>Display resolution and update</b> | 0,01 °C, one update per second   |
| <b>T90 (min:sec)</b>                 | 1:45   |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS<br>Medical grade sensor - ISO 80601-2-56  |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH   |
| <b>Cable length</b>                  | 1,7 m (including 0,5 m flat cable)   |
| <b>Materials</b>                     | Housing: Copper.<br>Cable: TPE (Flat part), PVC (Round part)   |
| <b>IP Class</b>                      | IP50   |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ±0,1 °C<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |



**Ordering info**

**Part no: 112s001** - DT121 Up-Down Digital Temperature Probe (Delivered with factory calibration certificate)  
**Part no: 800s003** - Accredited calibration of 2 Temperature sensors.



**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
121d001\_11/2024



DT112  
**Digital temperature probe**

Maintaining the correct temperature within incubators is indeed vital for cell viability and development. Typically, incubators are set to 37 °C to mimic the body's conditions and promote optimal cell growth. The use of a flat temperature probe is an excellent method to monitor these conditions accurately. The copper bottom of the probe is a thoughtful design feature, ensuring efficient thermal contact with various surfaces, which is essential for reliable temperature readings and, consequently, for the health of the cell cultures.

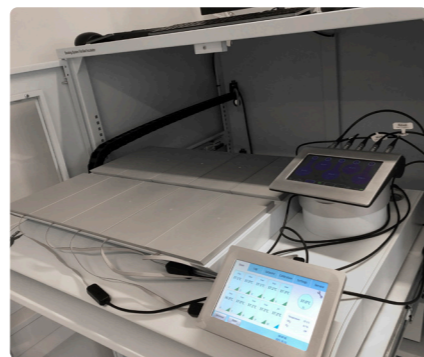


**Functions & Technology**

**Temperature probe**

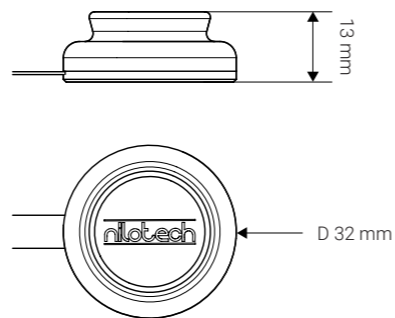
This new surface-temperature probe is ideal for controlling and calibration incubators and heating surfaces.

The design of these sensors, featuring a conductive copper base and an insulating top, ensures maximum thermal contact and accuracy. Moreover, the factory calibration of each sensor, along with the option for a third-party accredited calibration certificate, guarantees reliability



**Specifications**

|                                      |  |
|--------------------------------------|--|
| <b>Sensor type</b>                   | Digital temperature sensor   |
| <b>Measure range &amp; accuracy</b>  | -20 - 50 °C/0,03 °C accuracy possible.   |
| <b>Display resolution and update</b> | 0,01 °C, one update per second   |
| <b>T90 (min:sec)</b>                 | 1:45   |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS   |
|                                      | Medical grade sensor - ISO 80601-2-56  |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH   |
| <b>Cable length</b>                  | 1,7 m (including 0,5 m flat cable)   |
| <b>Materials</b>                     | Housing: ABS, Copper.<br>Cable: TPE (Flat part), PVC (Round part)  |
| <b>IP Class</b>                      | IP50   |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ±0,1 °C<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |



**Ordering info**

**Part no: 112s001** - DT112 FC Digital Temperature Probe  
**Part no: 800s002** - Accredited calibration of 1 temperature sensor

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**

112d001\_11/2024

DT122  
**Dual digital temperature probe**

Accurate temperature control is crucial in any position where living cells are handled. The standard temperature setting of 37 °C reflects the human body's natural condition, providing an ideal environment for most cell types. Utilizing a flat temperature probe with a copper bottom enhances the accuracy of temperature measurements due to its superior thermal conductivity, which is vital for maintaining the integrity and health of the cell cultures. This attention to detail in equipment design significantly contributes to the success of IVF treatments and biological research.



**Functions & Technology**

**Dual temperature probe**

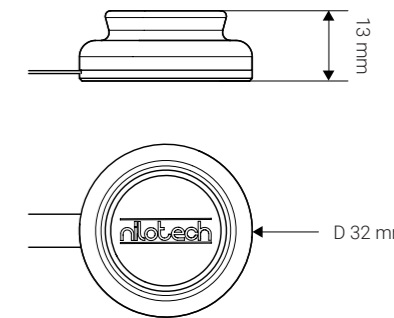
The DT122 is a versatile tool, equipped with dual temperature sensors within a single probe, enabling simultaneous measurements at two distinct locations.

NiloChecker 500 expands these capabilities, allowing for the measurement and calibration of up to ten different positions or chambers at once, and precision in various applications.



**Specifications**

|                                      |  |
|--------------------------------------|--|
| <b>Sensor type</b>                   | 2 x Digital temperature sensors  |
| <b>Measure range &amp; accuracy</b>  | -20 - 50 °C/0,03 °C accuracy possible.   |
| <b>Display resolution and update</b> | 0,01 °C, one update per second   |
| <b>T90 (min:sec)</b>                 | 1:45   |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS   |
|                                      | Medical grade sensor - ISO 80601-2-56  |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH   |
| <b>Cable length</b>                  | 1,7 m (including 0,5 m flat cable)   |
| <b>Materials</b>                     | Housing: ABS, Copper.<br>Cable: TPE (Flat part), PVC (Round part)  |
| <b>IP Class</b>                      | IP50   |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ±0,1 °C<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |



**Ordering info**

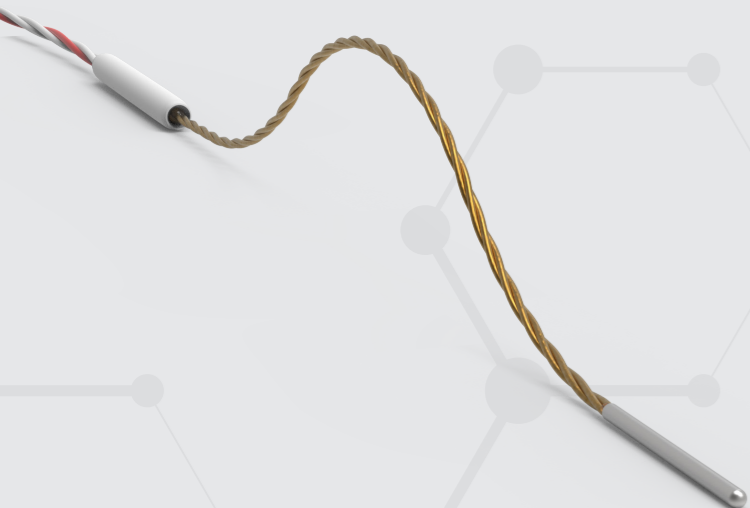
**Part no: 122s001** - DT122 Dual Digital Temperature Probe (Delivered with factory calibration certificate).  
**Part no: 800s003** - Accredited calibration of 2 temperature sensors.

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**

122d001\_11/2024



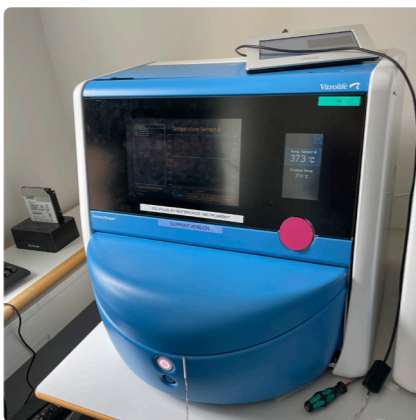
PT120  
**Platinum 1 mm flexible temperature probe**

The PT120 represents a significant advancement in temperature sensing technology. Its platinum construction ensures high accuracy and stability, making it ideal for precision measurement needs. The compact design allows for easy integration into a variety of systems without disturbance, and the quick response time enables real-time monitoring and control.

**Functions & Technology**

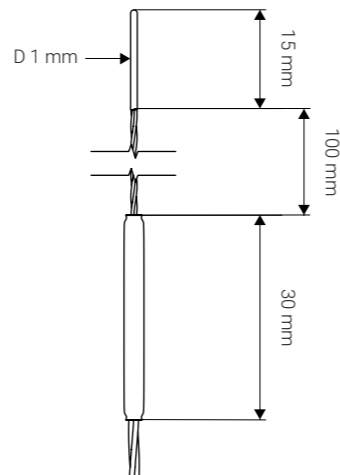
**Ideal temperature probe for narrow openings down to 1 mm in diameter.**  
The industry standard PT-100 sensor is precise and stable over a wide temperature range.

PT120 is also particularly useful for controlling heated stages inside dishes and other sensitive heated devices. The probe can be placed on any surface, such as metal, glass, plastic etc.  
The probe can also be useful to measure liquids provided that it is placed inside a water-tight pouch.



**Specifications**

|                                      |   |
|--------------------------------------|---|
| <b>Sensor type</b>                   | Analog PT-100 temperature sensor (3 wire)   |
| <b>Measure range &amp; accuracy</b>  | -50 - 50 °C/0,03 °C accuracy possible.  |
| <b>Display resolution and update</b> | 0,01 °C, one update per second  |
| <b>T90 (min:sec)</b>                 | 0:25  |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS  |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH  |
| <b>Cable length</b>                  | 1,7 m (including 0,5 m flat cable)  |
| <b>Materials</b>                     | Flexible FR-4, Epoxy.   |
| <b>IP Class</b>                      | IP50  |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ± 0,1 °C in the range 0 - 50 °C<br>PT120 can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires an adaptor. Part no: 115s001. |



**Ordering info**

**Part no: 120s002** - PT120 Platinum 1 mm flexible temperature probe  
**Part no: 800s002** - Accredited calibration of 1 temperature sensor

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
120d001\_11/2024



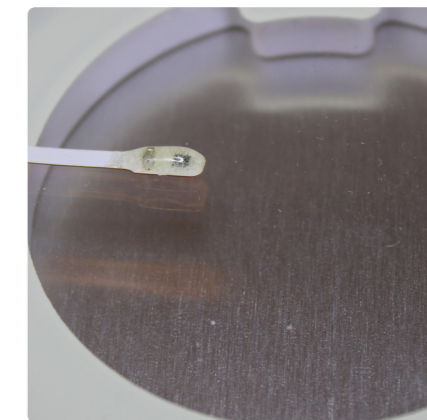
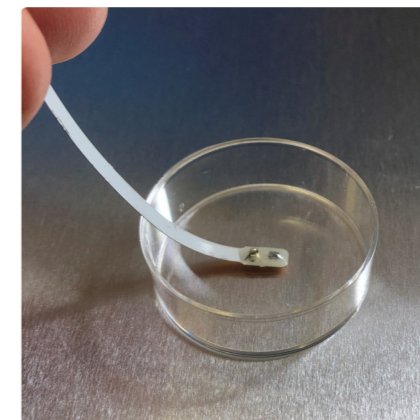
DT123  
**Digital dish-temperature probe**

The DT123 Digital dish-temperature probe is a state-of-the-art instrument designed for precision and ease of use in laboratory settings. Its 200 mm flat flexible wire and small sensor allow for accurate temperature measurements in narrow spaces without significantly disturbing the environment. This sensor is particularly suited for applications where maintaining the correct temperature is vital for cell viability such as inside dishes.

**Functions & Technology**

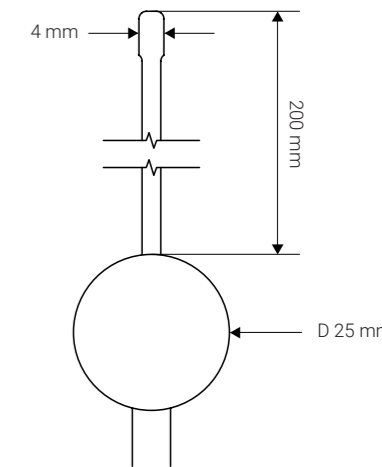
**Dedicated temperature sensor for dishes and tubes.**

DT123 is ideal for controlling and calibrating heated stages and other sensitive heating devices. The probe can be placed on any surface, such as metal, glass, plastic etc. We have made it possible to connect 5 different probes to one NiloChecker. Controlling and calibrating your lab equipment has never been faster or easier.



**Specifications**

|                                      |   |
|--------------------------------------|---|
| <b>Sensor type</b>                   | Digital temperature sensor  |
| <b>Measure range &amp; accuracy</b>  | -20 - 50 °C/0,03 °C accuracy possible.  |
| <b>Display resolution and update</b> | 0,01 °C, one update per second  |
| <b>T90 (min:sec)</b>                 | 0:45  |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS<br>Medical grade sensor - ISO 80601-2-56   |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH  |
| <b>Cable length</b>                  | 1,7 m (including 0,5m flat cable)   |
| <b>Materials</b>                     | Flexible FR-4, Epoxy.<br>Cable: TPE (Flat part), PVC (Round part)   |
| <b>IP Class</b>                      | IP50  |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ± 0,1 °C<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |



**Ordering info**

**Part no: 123s001** - DT123 Digital dish temperature Probe (Delivered with factory calibration certificate)  
**Part no: 800s002** - Accredited calibration of 1 temperature sensor.

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Document**  
123d001\_11/2024





PT123  
2,5 x 100 mm stainless steel PT100

The PT123 represents an important advancement in temperature sensing technology. Its stainless steel encapsulated PT100 sensor ensures high accuracy and stability, making it ideal for precision measurements. The immersible tip allows for precise measurements in test tubes, waterbaths and other containers. Quick response time enables real-time monitoring and control.

Functions & Technology

Ideal temperature probe for liquids

The industry standard PT-00 sensor is precise and stable over a wide temperature range. The Nilotech PT123 has a dynamic range between -50 °C to 100 °C.

PT123 is particularly useful for controlling liquids in water baths, test tubes, and other fluid containers.

The probe can be inserted into on any opening larger than 2,5 mm diameter such as sideports on incubators.



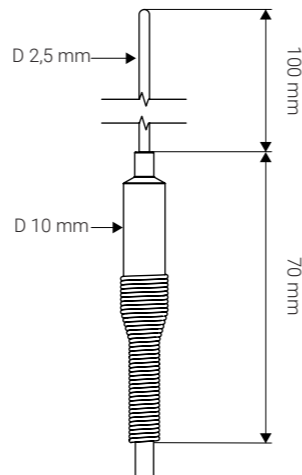
Specifications

|                                      |  |
|--------------------------------------|--|
| <b>Sensor type</b>                   | Analog PT-100 temperature sensor (3 wire)  |
| <b>Measure range &amp; accuracy</b>  | -50 - 100 °C/0,03 °C accuracy possible.  |
| <b>Display resolution and update</b> | 0,01 °C, one update per second   |
| <b>T90 (min:sec)</b>                 | 0:45   |
| <b>Compliance</b>                    | ISO/EN61010-1 - RoHS   |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH   |
| <b>Cable length</b>                  | 2 m with option for customisations.  |
| <b>Materials</b>                     | PVC.   |
| <b>IP Class</b>                      | IP50   |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ± 0,1 °C in the range 0 - 100 °C<br>PT123 can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires an adaptor. Part no: 115s001. |



Ordering info

**Part no: 120s003** - 2,5 x 100 mm stainless steel PT100  
**Part no: 115s001** - Single probe calibration adaptor  
**Part no: 800s002** - Accredited calibration of 1 temperature sensor



Nilotech Aps.

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

Document  
123d001\_11/2024



DH140  
Digital Humidity Probe

Nilotech DH140 Humidity and Temperature Probe is a robust and cost-effective humidity transmitter with high accuracy and good stability. DH140 is suitable for Incubators, laboratories, greenhouses and fermentation devices.

Functions & Technology

Robust design

The stainless steel body of DH140 is IP65 classified, making it ideal for rough conditions. DH140 has high chemical tolerance thanks to the HUMICAP® sensor.

DH140 can be connected via an optional thin flexible cable 140sp001, so it can be positioned inside box- and desk-type incubators without affecting the surroundings.

The magnetic probe holder 140sp002 makes it convenient to install the sensor in the environment. A strong magnet stays firmly attached to steel structures. Alternatively, Ø3.5 mm holes can be used for fastening.



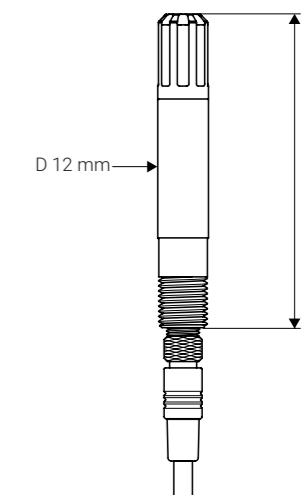
Specifications

|                                      |  |
|--------------------------------------|--|
| <b>Sensor type</b>                   | Capacitive type HUMICAP®   |
| <b>Measure range /accuracy</b>       | 0 - 100% RH/±1.5% RH (0 - 40 °C)<br>-40 - 80 °C (-40 - 176 °F)/ ±0.2 °C  |
| <b>Stability</b>                     | ±2% RH over 2 years  |
| <b>Display resolution and update</b> | 0,1% RH, one update per second   |
| <b>T90 (min:sec)</b>                 | 0:04   |
| <b>Compliance</b>                    | ISO/EN61010-1, EN 61326-1, RoHS  |
| <b>Operating conditions</b>          | 0 - 50 °C/5 - 95% RH   |
| <b>Cable length/materials</b>        | 1,5 m/Polyurethane or FEP  |
| <b>Sensor Materials</b>              | Stainless steel (housing), Chrome coated ABS plastic (grid)  |
| <b>IP Class</b>                      | IP65   |
| <b>Calibration</b>                   | Delivered with factory calibration certificate. Accuracy ±1,5% RH in the range 0 - 40 °C<br>DH 140 can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires an adaptor. Part no: 115s001. |



Ordering info

**Part no: 140s001** - DH140 Digital humidity probe  
**Part no: 140sp001** - Flat cable for 140s001  
**Part no: 140sp002** - Magnetic Probe Holder for DH140



Nilotech Aps.

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

Document  
140d001\_11/2024



DLV119  
**Digital low velocity air flow probe**

Correct laminar flow in IVF workstations is crucial to avoid contaminating cells and ensuring operator safety. The DLV119 can be used to control filters and flow according to manufacturer's recommendations and international standards such as EN 12469 in:

- Biological Safety Cabinets
- Chemical Fume Hoods
- Laminar Flow Hoods
- Clean Benches
- HEPA & Filter Boxes
- And other

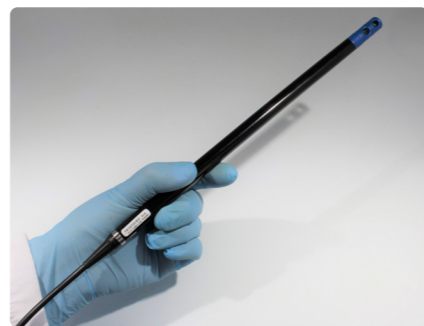
DLV119 is a versatile and rugged, high-performance air velocity probe for low flow.

**Functions & Technology**

**Functions and Technology**

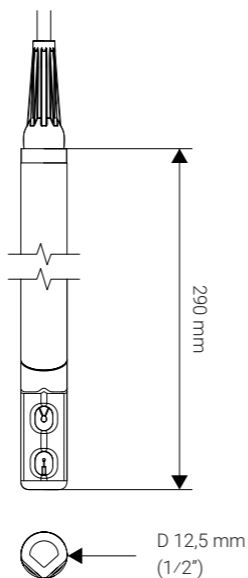
DLV119 is suitable for demanding applications, including those in corrosive or alkaline environments. With its robust, splash proof design, the DLV119 is designed to support a wide range of product and process control air flow applications.

Software in the NiloChecker supports calculation of airflow in accordance with international standards and easy reporting.



**Specifications**

|  |  |
|--|--|
| <b>Sensors</b>                             | Hot wire anemometer. Temperature compensated.  |
| <b>Measure range</b>                       | Flow: 0,15 – 1,5 m/s. Temperature: 0 °C - 60 °C  |
| <b>Accuracy</b>                            | Flow: ± 1% of reading + 0,05 m/s. Temperature: ±1 °C   |
| <b>Response time</b>                       | 400 ms   |
| <b>Compensation for ambient conditions</b> | Temperature (0-60 °C)  |
| <b>Display resolution and update</b>       | 0,01 m/s, 0,01 °C, one update per sec.   |
| <b>Cable length</b>                        | 2 m  |
| <b>Compliances</b>                         | CE with NiloChecker 500. RoHs.   |
| <b>Calibration</b>                         | Delivered with factory calibration certificate..<br>Can be calibrated in accordance with ISO/IEC 17025.<br>Calibration requires adaptor. Part no: 115s001. |
| <b>Operating conditions</b>                | 5-95% RH (Non condensing)  |
| <b>Materials</b>                           | Cable: PVC coated<br>Housing: Polycarbonate (PC), UL94-V0 (head)<br>UL94-HB (housing). Aluminium (Cable ring)  |



**Ordering info**

**Part no: 119s001** - DLV119 Digital Air Velocity Probe (Delivered with factory calibration)

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nitotech.eu - www.nilotech.eu

**Document**  
119d001\_11/2024



**NiloBlock**

**A new heating block concept for oocyte retrieval**

A new insulated heating block which brings optimal temperature stability to test tubes. This newly developed concept allows visual inspection of tube content with minimal heat loss. NiloBlock can be used with standard heating surfaces and compatible block heaters.

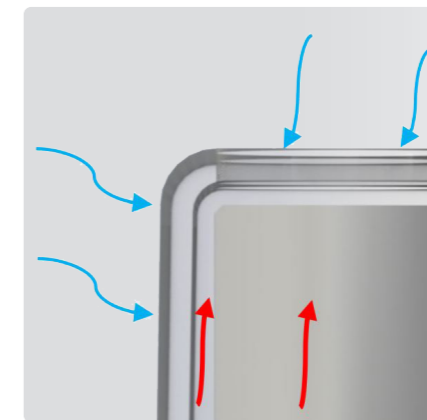
**Functions & Technology**

**The important insulation**

Block and Tubes are thermally insulated from the outside by a thin layer of air between block and cover. The insulation ensures a uniform temperature throughout the tubes.

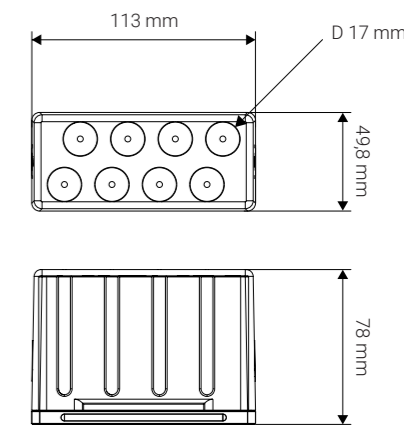
**Smart cover**

The transparent cover allows observation of the tube content, which is important during Oocyte retrieval. The cover easily snaps on and off for cleaning.



**Specifications**

|                         |  |
|-------------------------|--|
| <b>Materials</b>        | Block: Anodized aluminum<br>Cover: Polycarbonate                               |
| <b>Weight</b>           | 630 g  |
| <b>Contry of origin</b> | Denmark  |
| <b>Cleaning</b>         | Block: Handwash and/or autoclave<br>Cover: Handwash or machinewash (max 70 °C) |



**Ordering info**

**Part no: 110S002** - NiloBlock

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nitotech.eu - www.nilotech.eu

**Document**  
110d001\_11/2024





**Accessories**

Accessories for our product range



**Accessories**

Accessories for our product range



**Calibration adapter**  
Adaptor to check and adjust any NiloChecker probe.

**Ordering info**  
Part no: 115s001



**Water trap for DG126**  
Water trap with luer-lock fittings.

**Ordering info**  
Part no: 126sp002



**Calibration cap for DG112**  
Silicone cap for calibrating the DG112 - CO<sub>2</sub> /O<sub>2</sub> probe.

**Ordering info**  
Part no: 112s002

**UMONIUM38® NEUTRALIS TISSUES**

NEUTRALIS TISSUES are broad-spectrum cleaning and disinfectant wipes. They can be used to disinfect your NiloChecker, NiloChecker probes and other non-invasive medical devices. This unperfumed and uncolored product has been developed for use in neonatal incubators, IVF laboratories and more. Delivered in container with 100 wipes 20x20 cm.



**Ordering info**  
Part no: 130s001



**Extension cable**  
3 m. Extension cable for NiloChecker probes

**Ordering info**  
Part no: 112s005



**NiloCase**  
Mobile hard case for NiloChecker and sensors.

**Ordering info**  
Part no: 111s020



**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - contact@nilotech.eu - www.nilotech.eu



**nilotech**

**Nilotech Aps.**

Knudstrupvej 14 - DK-4270 Hoeng, Denmark  
+45 30 32 32 96 - [contact@nilotech.eu](mailto:contact@nilotech.eu) - [www.nilotech.eu](http://www.nilotech.eu)