nilotech

Nilotech Product Range

QC and monitoring equipment
for specialised labs

Version: **02/2026**

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 & Technical Director
Fertitech Canada

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NiloChecker 500 WiFi

One reference instrument - many applications
As a gold standard within Quality Assurance and Quality Control, The NiloChecker supports measurement of six different modalities in the IVF laboratory: Temperature, CO_2/O_2 Concentrations, Pressure and Flow, Humidity, Air Flow and RPM – with new probes continuously being launched.
The NiloChecker is available in two configurations. The standard version is a preferred all-in-one device for spot check and calibration, used by both laboratory personnel and service engineers. The monitoring version automatically transfers data from equipment to the cloud for storage and documentation, providing a more strategic approach to overall operations of your laboratory.

Application & Technology

Online monitoring
NiloChecker 500 will together with the NiloCloud ensure constant monitoring of equipment in your lab.

Time saving
Save precious time on process and quality control. Perform up to 10 simultaneous measurements. For instance, check your incubator for CO_2, O_2, 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.

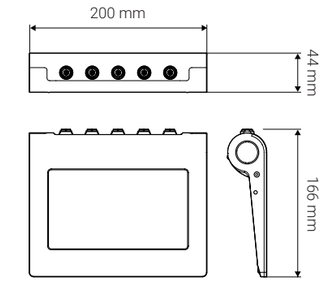
No need for calibration
The instrument is fully digital and will never need calibration. The instrument stays in the lab and measurement probes can be controlled and calibrated separately.

Compatible sensors
Compatible with CO_2, O_2, temperature, humidity 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

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



Ordering info

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

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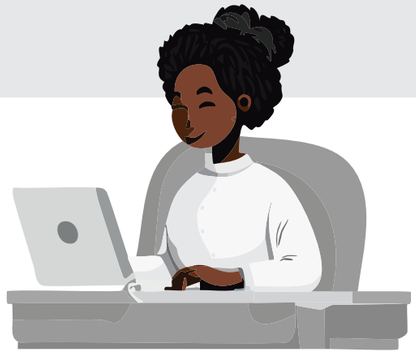
NiloCloud

A scalable, secure, and seamless cloud solutions

Data Collection

The NiloChecker collects data directly from the source in your laboratory. This automation frees up time for you to focus on your artisan lab work.

Consolidated data allows you to check all parameters from all connected equipment simultaneously from one display.



Workstation

Monitor, analyse and collaborate. From your workstation you can monitor equipment performance in real time and get notified, when set limits are crossed or discrete procedural steps have finished. You can analyse data from different sources and compare performance, in your own time and from everywhere. You can collaborate with colleagues and peers long-distance across continents and time-zones.

NiloCloud

Designed to ease data logging and storage, the NiloCloud offers a unique insight in your operations at all levels. From service departments scheduling maintenance and calibration, creating statistics, and engaging into a meaningful dialogue with the customers, to clinics getting overview of production performance and contract holders being empowered to perform strategic decision making. All in your time and where you decide to do it. Sharing and engaging with colleagues over time and geography the NiloCloud is value creation beyond expectation and perhaps desire.

Application & Technology

Reduce your workload
Automatic collection and storing of data for purposes of quality control and assurance, certification, audit, and long-term performance monitoring provides flexibility in prioritising your tasks.

Secure your data
All data collected from every piece of equipment connected to a NiloChecker is securely stored in the NiloCloud providing complete traceability and documentation.

Get notified
Get notifications at your convenience. Set your preferred limits and schedules and get notifications at your convenience by e-mail or text.

Specifications

NiloCloud	
Connection:	Via local WiFi or LAN/GSM via NiloRouter
Computer requirements (minimum):	Intel® i3, 4 Gb RAM
Cloud Storage Capacity:	Unlimited one year storage
Export format:	*.csv

UPS for NiloRouter	
Input Voltage	9-30 VDC
Output Voltage (battery mode)	12 VDC
Max Output (W/A)	22W/1,8 Ampere
Battery Capacity	2600mAh / 17Wh
Operating Time	1,5 – 4 hours

NiloRouter	
Dimensions (w/o antennas)	(114.5 x 93.6 x 32) mm
Weight	360 g
Interface	Input WiFi, Output LAN or GSM
Networking Interface	(2) GbE RJ45 ports, LTE Category 4 radio WiFi 4.
Max Network Speed	150/50 Mbps (Down/Up)
WiFi Standard	802.11 b/g/n, WiFi 2.4GHz
Ambient operating temperature	-40 °C – 70 °C
Ambient operating humidity	5% to 95% noncondensing
Mounting	DIN rail/wall/pole mount (Included)

Ordering info

Part no: 500s001 - NiloCloud Quarterly License
Part no: 500s002 - Text service for NiloCloud
Part no: 500s003 - NiloRouter Mobile Industrial Router
Part no: 500s004 - UPS for NiloRouter

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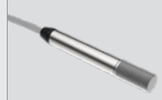
Probe Compatibility Table

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 / Nilotech probe	Box-type Incubator	Cook Minc	ESCO MIRI/TL	K-Systems G185	K-Systems G210	Origio/Planer BT37	Vitrolife EmbryoScope/ EmbryoScope+	IVF Workstation	ICSI Station	Warming Blocks/ Heaters	Cryogenic Applications
Temperature Measurements											
DT112/-122 Page 11 	Shelf temperature	Bottom temperature in chamber						Surface temperature heated table top			
DT123/-124 Page 13 	Temperature inside dish or test tube	Temperature inside dish in chamber						Temperature on heated stage or inside dish		Temperature in test tube	
DT121 Page 15 		Top and bottom temperature in chamber				Top and bottom temperature in chamber					
PT120 Page 16 							Chamber temperature	Temperature on heated stage	Airstream temperature on heated stage		
PT123 Page 17 	Air temperature or temperature in test tube					Chamber temperature in side-port		Temperature in test tube		Temperature in test tube	
PT125 Page 18 	Air temperature or temperature in test tube					Chamber temperature in side-port		Temperature in test tube		Temperature in test tube	Temperature in cryogenic tank

Probe Compatibility Table

Target / Nilotech probe	Box-type Incubator	Cook Minc	ESCO MIRI/TL	K-Systems G185	K-Systems G210	Origio/Planer BT37	Vitrolife EmbryoScope/ EmbryoScope+	IVF Workstation	Centrifuge
Gas Measurements									
 **DG126** Page 19	CO_2 and O_2 via chamber sample port		CO_2 and O_2 via chamber sample port	CO_2 and O_2 via sample port	CO_2 and O_2 via sample port in chamber lid		CO_2 and O_2 via sample port		
 **DG112** Page 20	CO_2 and O_2 inside chamber		CO_2 and O_2 inside chamber						
 **DG122** Page 21		CO_2 and O_2 output from filter	CO_2 and O_2 via chamber sample port			CO_2 and O_2 output from filter			
 **DMF119** Page 23	Pressure and flow measurement							Pressure and flow measurement	
Other Measurements									
 **DH140** Page 22	Humidity inside incubator chamber					Humidity inside incubator chamber		Environmental humidity or humidity inside workstation	
 **DLV119** Page 24								Laminar airflow measurements and calculations	
 **DLT145** Page 25									Measure RPM in rotational devices

DT112/-122

Digital Temperature Probe

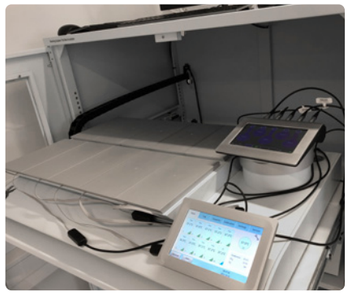
Maintaining the correct temperature within incubators is indeed vital for cell viability and development. Typically, incubators are set to 37 °C to mimic the body's conditions and promote optimal cell growth. The use of a flat temperature probe is an excellent method to monitor these conditions accurately. 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.

This probe is available as both single and dual sensor head.

Application & Technology

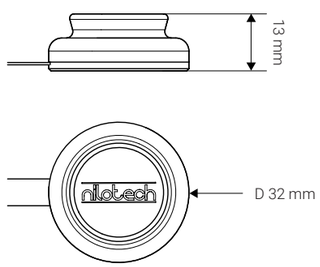
Temperature Probe
This unique surface-temperature probe is ideal for controlling and calibration incubators and heating surfaces.

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

Sensor type	Digital temperature sensor
Measure range & accuracy	-20 - 50 °C/0,03 °C accuracy possible
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	1:45
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500 Medical grade sensor - ISO 80601-2-56
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length	1,7 m (including 0,5 m flat cable)
Materials	Housing: ABS, Copper. Cable: TPE (Flat part), PVC (Round part)
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ±0,1 °C Can be calibrated in accordance with ISO/IEC 17025 Calibration requires adaptor. Part no: 115s001



Ordering info

Part no: 112s001 - DT112 Digital Temperature Probe (Delivered with factory calibration certificate)
Part no: 122s001 - DT122 Dual Digital Temperature Probe (Delivered with factory calibration certificate)
Part no: 800s011AC - Accredited calibration of DT probe in 2 points
Part no: 800s010 - Factory calibration of DT probe in 2 points

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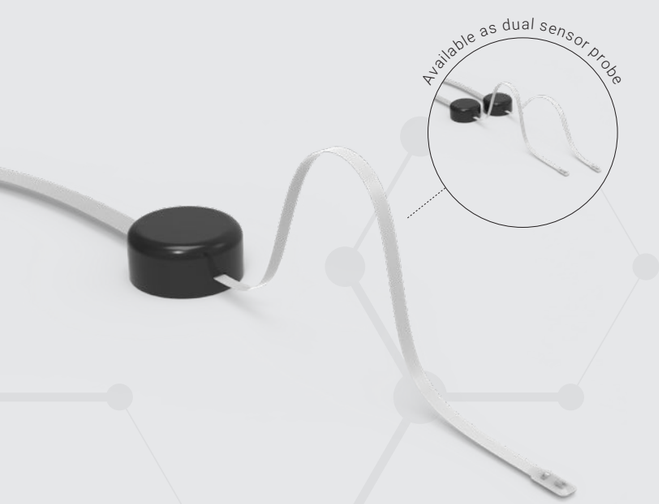


DT123 / DT124

Digital Dish-Temperature Probe

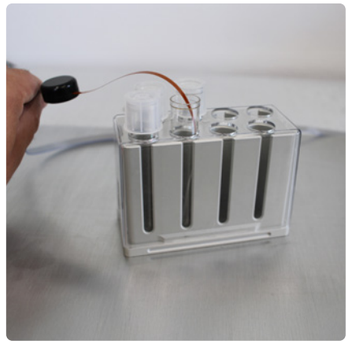
The DT123 Digital Dish-Temperature Probe is a state-of-the-art instrument designed for precision and ease of use in laboratory settings. Its 200 mm flat flexible wire and small sensor allow for accurate temperature measurements in narrow spaces without significant disturbing to the environment. This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

This probe is available both as single and dual sensor head.

Application & Technology

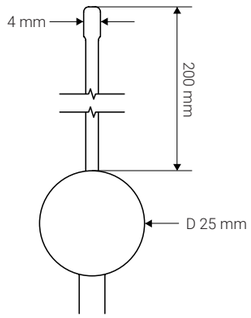
Dedicated temperature sensor for dishes and tubes
DT123 is ideal for controlling and calibrating heated stages and other sensitive heating devices. The probe can be placed on any surface, such as metal, glass, plastic etc.

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

Sensor type	Digital Temperature sensor
Measure range & accuracy	-20 - 50 °C/0,03 °C accuracy possible
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	0:45
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500 Medical grade sensor - ISO 80601-2-56 and ASTM E1112
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length	1,7 m (including 0,5m flat cable)
Materials	Flexible FR-4, Epoxy. Cable: TPE (Flat part), PVC (Round part)
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ± 0,1 °C Can be calibrated in accordance with ISO/IEC 17025 Calibration requires adaptor. Part no: 115s001

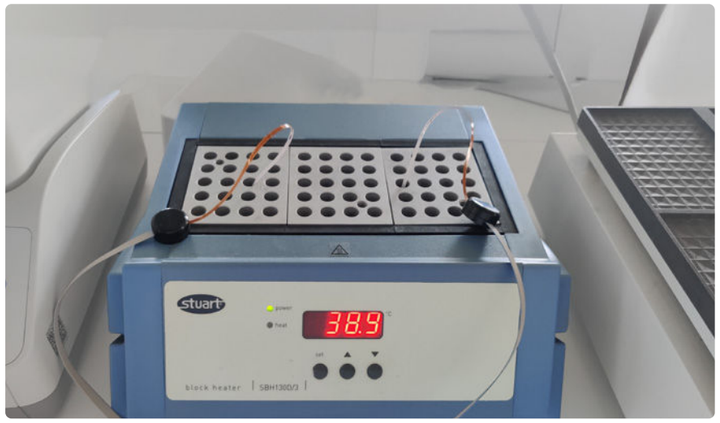


Ordering info

Part no: 123s001 - DT123 Digital Dish Temperature Probe - Delivered with factory calibration certificate
Part no: 124s001 - DT124 Dual Digital Dish-Temperature Probe - Delivered with factory calibration certificate
Part no: 800s011AC - Accredited calibration of DT probe in 2 points
Part no: 800s010 - Factory calibration of DT probe in 2 points

Dual temperature probe for dishes, temperature controlling devices, and tubes
The DT124 - Dual Digital Dish-Temperature Probe is particularly ideal for measuring and controlling temperature in dishes and tubes. The sensors can be placed directly on various surfaces such as metal, glass, plastic etc.

You can connect up to five probes to a NiloChecker and measure and calibrate up to ten different positions or chambers at once. This saves you time and ensures reliable performance of critical equipment in your laboratory.



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DT121

Up-Down Digital Temperature Probe

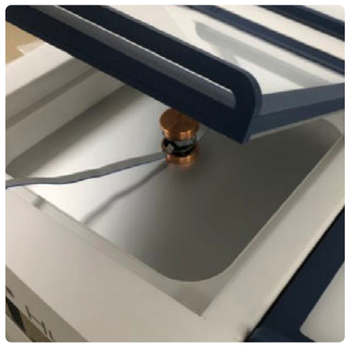
The DT121 Up-Down Digital Temperature Probe represents a significant advancement in precise temperature control of cell culture incubators. Its innovative design with a copper top and bottom, connected by a spring, ensures optimal thermal contact with both the chamber floor and lid. This dual-measurement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

Application & Technology

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

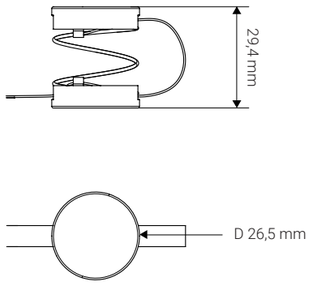
Flexible design
The probe can be placed on an incubator chamber floor, while the spring ensures good contact between upper sensor and lid.

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

Sensor type	2 x Digital temperature sensors
Measure range & accuracy	-25 - 50 °C/0,03 °C accuracy possible.
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	1:45
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500 Medical grade sensor - ISO 80601-2-56
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length	1,7 m (including 0,5 m flat cable)
Materials	Housing: Copper. Cable: TPE (Flat part), PVC (Round part)
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ±0,1 °C Can be calibrated in accordance with ISO/IEC 17025. Calibration requires adaptor. Part no: 115s001.



Ordering info

Part no: 121s001 - DT121 Up-Down Digital Temperature Probe (Delivered with factory calibration certificate)
Part no: 800s010/800s011AC - Accredited calibration of DT probe in 2 points
Part no: 800s010 - Factory calibration of DT probe in 2 points

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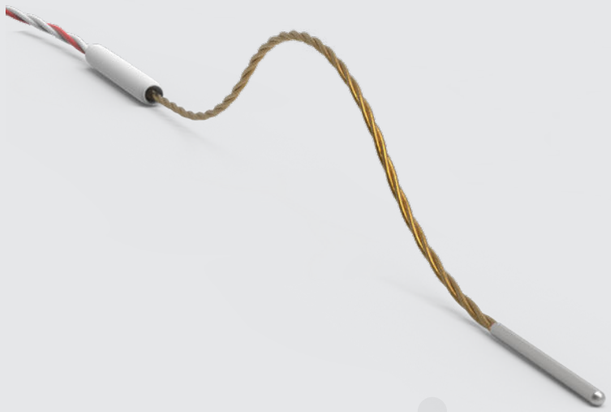


PT120

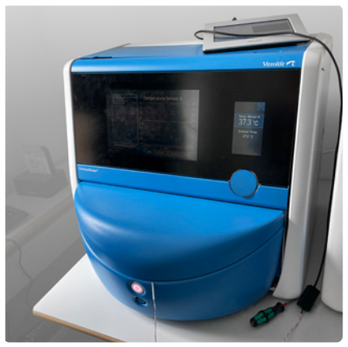
Platinum 1 mm Flexible Temperature probe

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.

Application & Technology

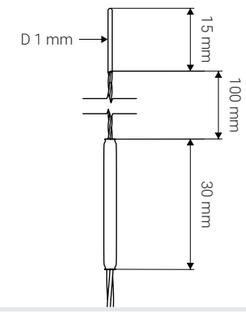
Ideal temperature probe for narrow openings down to 1 mm in diameter
The industry standard PT-100 sensor is precise and stable over a wide temperature range.

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

Sensor type	Analogue PT-100 temperature sensor (3 wire)
Measure range & accuracy	-50 - 50 °C/0,03 °C accuracy possible
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	0:25
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length	2 m
Materials	Stainless steel tip, polyamide and Teflon coated connection wires, PVC cable
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ± 0,1 °C in the range 0 - 50 °C PT120 can be calibrated in accordance with ISO/IEC 17025 Calibration requires an adaptor. Part no: 115s001



Ordering info

Part no: 120s002 - PT120 Platinum 1 mm Flexible Temperature Probe
Part no: 800s012/800s013 AC - Accredited calibration of 1 temperature sensor in 3 points
Part no: 800s012 - Factory calibration of PT probe in 3 points

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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.

Application & Technology

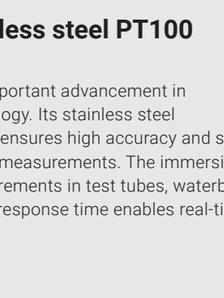
Ideal temperature probe for liquids
The industry standard PT-100 sensor is precise and stable over a wide temperature range. The Nilotech PT123 measures between -50 °C to 100 °C.

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

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

Specifications

Sensor type	Analog PT-100 temperature sensor (3 wire)
Measure range & accuracy	-50 - 100 °C, 0,03 °C accuracy possible
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	0:45
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length	2 m with option for customisations
Materials	Tip: Stainless steel - Cable: PVC
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ± 0,1 °C in the range 0 - 100 °C PT123 can be calibrated in accordance with ISO/IEC 17025 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: 800s012/800s013 AC - Accredited calibration of 1 temperature sensor in 3 points
Part no: 800s012 - Factory calibration of PT probe in 3 points

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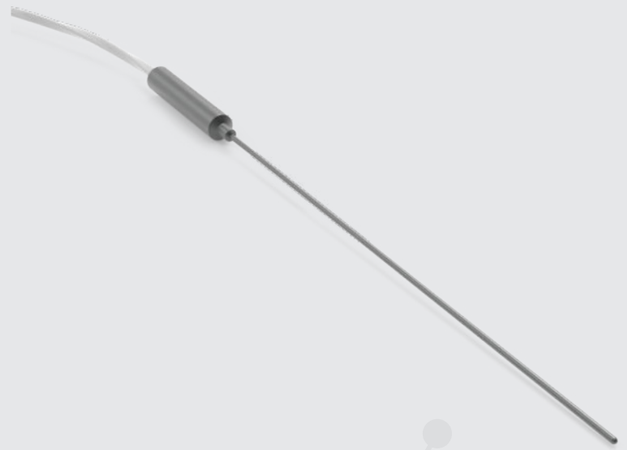


PT125

1,6 x 150 mm stainless steel cryogenic PT100

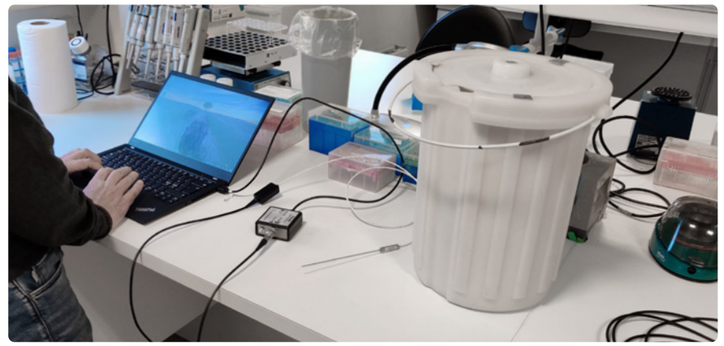
Maintaining the temperature of cryogenic sample storage is essential to preserve the integrity of cell-based materials used in various research and therapy applications. The PT125 Cryo Temperature Probe is perfect for measuring temperatures inside cryo preservation tanks. With a temperature range from -200°C to +50°C, this probe is suitable for both spot-checking liquid levels and long-term monitoring.

Application & Technology

Specialised cryogenic probe
The PT125 Cryo Temperature Probe is designed for ease and safety. Its 150mm long tip allows for easy positioning in any open vessel.

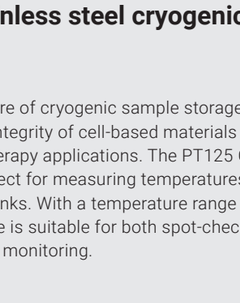
The 1.6mm tip minimizes heat transfer through the probe.

The attached Teflon cable enables the entire probe to be immersed in a large dewar for quick level control or long-term monitoring.



Specifications

Sensor type	Analog PT-100 temperature sensor (3 wire)
Measure range & accuracy	-200 - 50°C, 0,03 °C accuracy possible
Display resolution and update	0,01 °C, one update per second
T90 (min:sec)	0:45
Compliance	ISO/EN61010-1 • RoHS • CE with NiloChecker 500
Room operating conditions	0 - 50 °C/5 - 95% RH
Cable length	2 m with option for customisations.
Materials	Tip: Stainless steel - Cable: Teflon and PVC
IP Class	IP50
Calibration	Delivered with factory calibration certificate. Accuracy ± 0,1 °C in the range -200 - 50 °C PT125 can be calibrated in accordance with ISO/IEC 17025 Calibration requires an adaptor. Part no: 115s001



Ordering info

Part no: 120s005 - PT125 Digital Cryo Temperature Probe
Part no: 115s001 - Single probe calibration adaptor
Part no: 800s012/800s013 AC - Accredited calibration of 1 temperature sensor in 3 points
Part no: 800s012 - Factory calibration of PT probe in 3 points

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Document
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DG126

Digital CO_2/O_2 Probe with Pump

The DG126 Digital Carbon Dioxide (CO_2) and Oxygen (O_2) 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.

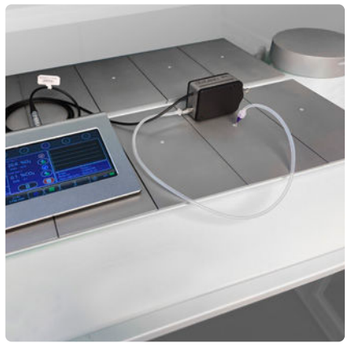
Application & Technology

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_2 and O_2 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.

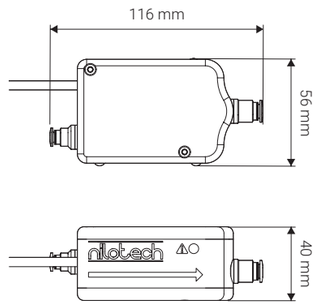
Ease of use
Connect up to 5 DG126 probes simultaneously. With the NiloChecker in your hand, you can start/stop measurements, monitor progress and store readings for later analysis.

Output data
CO_2 and O_2 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

Sensors	NDIR (CO_2), Electro-chemical (O_2)
Measure range	0 - 30% O_2/0 - 12% CO_2
Accuracy	0,2% O_2, 0,1% CO_2 ±3% of reading
T90	< 20 sec. (O_2), < 15 sec. (CO_2)
Compensation for ambient conditions	Temperature (20 - 40 °C), altitude (700 - 1100 mbar)
Pump flow	100 - 150 ml/min
Display resolution and update	0,1%, one update per sec.
Cable length	1 m
Tube fitting	Luer-lock as standard. Other 1/8" fittings optional
Compliances	CE with NiloChecker 500 • RoHs
Calibration	Delivered with factory calibration certificate Can be calibrated in accordance with ISO/IEC 17025 Calibration requires adaptor. Part no: 115s001
Operating conditions	0 - 50 °C, 5 - 95% RH (Non condensing)



Ordering info

Part no: 126s002 - DG126 Digital CO_2/O_2 probe with pump - Delivered with factory calibration certificate
Part no: 800s015 - Factory calibration of Nilotech gas probe incl. factory and gas certificates
Part no: 800s015AC - Acc. Gas calibration of DG Probe

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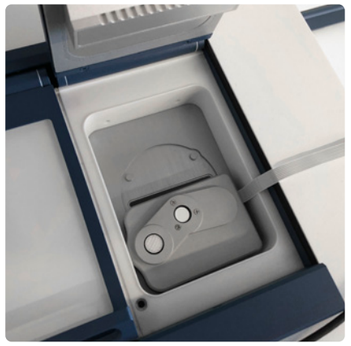
DG112

Digital CO_2/O_2 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.

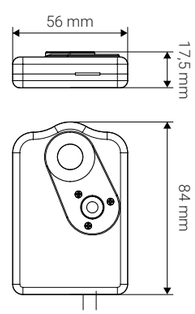
Application & Technology

Digital gas probe
This Digital CO_2 and O_2 probe also represent 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_2 and O_2 levels, which is crucial for maintaining the optimal environment for cell cultures and other sensitive biological samples.



Specifications

Sensors	NDIR (CO_2), Electro-chemical (O_2)
Measure range	0 - 30% O_2/0 - 12% CO_2
Accuracy	0,2% O_2, 0,1% CO_2 ± 3% of reading
T90	< 20 sec. (O_2), < 15 sec. (CO_2)
Compensation for ambient conditions	Temperature (20 - 40 °C), altitude (700 - 1100 mbar)
Display resolution and update	0,1%, one update per sec.
Cable length	2 m
Compliances	CE with NiloChecker 500 • RoHs
Calibration	Delivered with factory calibration certificate Can be calibrated in accordance with ISO/IEC 17025. 0 - 50 °C Calibration requires adaptor. Part no: 115s001
Operating conditions	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: 800s015 - Factory calibration of Nilotech gas probe incl. factory and gas certificates
Part no: 800s015AC - Acc. Gas calibration of DG probe

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DG122

Digital Flow-Through CO_2/O_2 Probe

The DG122 Digital CO_2/O_2 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.

Application & Technology

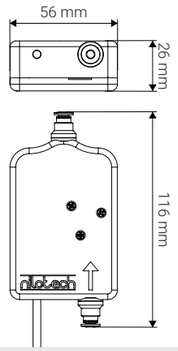
Dual measurements
The DG122 is a sophisticated gas analyzer designed to measure CO_2 and O_2 levels simultaneously. To ensure accurate readings, it's essential to connect the DG122's input port to a gas sample port on the target device. If the target device has a return port, the DG122's output port 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.
Important: DG122 does not contain a pump and relies on the flow from the target device. Please refer to DG126 for a probe with pump.

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_2 and O_2 in %. The NiloChecker calculates and maps data including min., average, and max. values from any measurement sessions. See NiloChecker specifications for more information.

Specifications

Sensors	NDIR (CO_2), Electro-chemical (O_2)
Measure range	0 - 30% O_2/0 - 12% CO_2
Accuracy	0,2% O_2, 0,1% CO_2 ±3% of reading
T90	< 20 sec. (O_2), < 15 sec. (CO_2)
Compensation for ambient conditions	Temperature (20 - 40 °C), altitude (700 - 1100 mbar)
Display resolution and update	0,1%, one update per sec.
Cable length	2 m
Tube fittings	6 mm push-in as standard. Other 1/8" fittings optional.
Compliances	CE with NiloChecker 500 • RoHs.
Calibration	Delivered with factory calibration certificate. Can be calibrated in accordance with ISO/IEC 17025. 0 - 50 °C Calibration requires adaptor. Part no: 115s001.
Operating conditions	0 - 40 °C, 5 - 95% RH (Non condensing)



Ordering info

Part no: 122s002 - DG122 Digital flow-through CO_2/O_2 probe. - Delivered with factory calibration certificate
Part no: 800s015 - Factory calibration of Nilotech gas probe incl. factory and gas certificates
Part no: 800s015AC - Acc. Gas calibration of DG Probe

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DH140

Digital Humidity Prope

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.

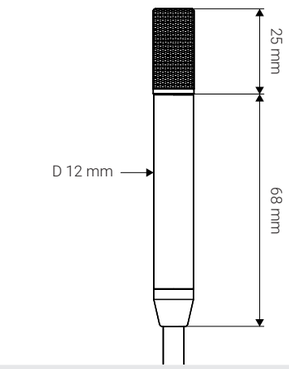
Application & Technology

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

DH140 is connected via a thin flexible cable so it can be positioned inside box- or desk-type incubators without affecting the environment. 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 screw fastening.

Specifications

Sensor type	Capacitive type
Measure range /accuracy	0 - 80% RH, ±1.5%, 0 - 60 °C 80 - 100% RH, ±2%, 0 - 80 °C 20 - 50 °C, ±0.1 °C
Stability	±0,25% RH over 1 year
Display resolution and update	0,1% RH, one update per sec.
T90 (min:sec)	0:26s
Compliance	ISO/EN61010-1 • EN 61326-1 • RoHS • CE with NiloChecker 500
Operating conditions	0 - 50 °C/5 - 95% RH
Cable length/materials	0,5 m TPE (flat part), 1,2 m PVC (round part) and ABS (junction box)
Sensor Materials	Stainless steel (housing and grid)
IP Class	IP65
Calibration	Delivered with factory calibration certificate Accuracy ±1,5% RH in the range 0 - 80% RH, 0 - 60°C DH140 can be calibrated in accordance with ISO/IEC 17025 Calibration requires an adaptor. Part no: 115s001



Ordering info

Part no: 140s001 - DH140 Digital Humidity Probe
Part no: 140sp002 - Magnetic Probe Holder for DH140
Part no: 800s016 - Factory R.H. calibration of DH140

Document
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DMF119

Digital Mass Flow Probe

The DMF119 - Digital Mass Flow Probe - is for **Pressure** and **Flow** measurement to be used with the NiloChecker.

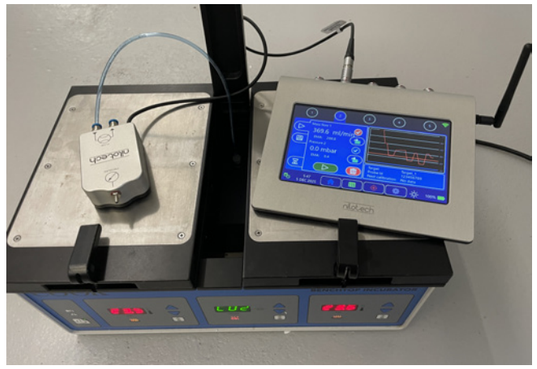
DMF119 is equipped with a piezoresistive silicon pressure sensor offering a digital output. This technology combines high overpressure and bursts pressure, ensuring both protection and high sensitivity. Flow is measured with a MEMS-sensor, also providing accurate results at high sensitivity.

Application & Technology

Application
DMF119 is intended for service, maintenance, and calibration of a range of equipment and is especially well suited for incubators using pre-mixed gas, and equipment using pneumatics as source of power: OPU-vacuum pumps, Micro-manipulators and other.

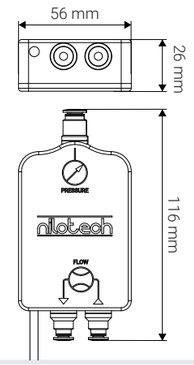
Pressure and Flow Measurement
To satisfy different needs for different applications, the DMF119 can be equipped with a variety of nozzles and be calibrated within different dynamic ranges. The pressure sensor is extremely accurate +/- 0,25% of full-scale reading and has a very long lifetime provided it is used within specified range.

Note: The DMF119 should only be used with non-corrosive, non-ionic gases. DO NOT use the probe for applications involving flow-through of pure oxygen.



Specifications

Sensor types	MEMS mass flow sensor and piezoresistive silicon pressure sensor
Compatible instruments	NiloChecker
Communication	Serial Digital
Data in probe	Calibration offset, Calibration day and interval, Probe identification, Sensor data, Sensor range, Sensor accuracy
Measuring range	Flow: 0-1000 mL/min, Pressure: Standard is -800-1000 mBar or 0-2000 mBar. Specify at ordering or inquire for other range.
Accuracy	Flow: +/-6,5 mL/min (+/-0,65%FS), Pressure: +/-2,5 mBar (+/-0,25%FS)
T90 (min:sec)	<5 sec
Display resolution and update	0,1 mL/min flow and 0,1 mBar pressure, one update per second
Cable length/materials	1 m
Tube fittings	Flow: 4 mm push in, Pressure: Hose nipple for 2-3 mm soft hose
Operating conditions	0 - 50 °C, 5 - 95 % RH (Non condensing)
Compliance	CE with NiloChecker, RoHS; REACH
Calibration	Delivered with Factory calibration certificate. The probe has a zero-calibration function. Can be calibrated in accordance with ISO/IEC 17025.



Ordering info **Part no: 119s003** - DMF119 Digital Mass Flow Probe - Delivered with factory calibration

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DLV119

Digital Low Velocity Air Flow Probe

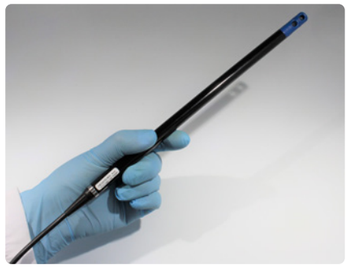
Correct laminar flow in IVF workstations is crucial to avoid contaminating cells and ensuring operator safety. The DLV119 can be used to control filters and flow according to manufacturer's recommendations and international standards such as EN 12469 in:
- Biological Safety Cabinets
- Chemical Fume Hoods
- Laminar Flow Hoods
- Clean Benches
- HEPA & Filter Boxes
- And other

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

Application & Technology

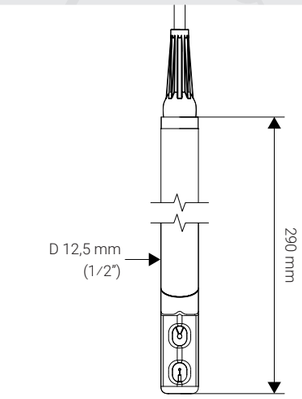
DLV119 is suitable for demanding applications, including those in corrosive or alkaline environments. With its robust, splash proof design, the DLV119 is designed to support a wide range of product and process control air flow applications.

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



Specifications

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



Ordering info
Part no: 119s001 - DLV119 Digital Air Velocity Probe - Delivered with factory calibration
Part no. 800s014AC - Acc. Calibration of DLV119 at 3 velocities

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DLT145

Digital Laser Tachometer Probe

Centrifuges deliver preparative separation technology, that decides purity and concentration of crucial components used in the laboratory. Keeping your centrifuges in good condition is therefore very important.

Application & Technology

The DLT145 - Digital Laser Tachometer Probe is designed for use with the NiloChecker to measure revolutions per minute (RPM) typically in centrifuges used in the biomedical, chemical, environmental or other analytical laboratories.

The probe utilises state of the art optical detection for measuring speed, using our proprietary hard- and firmware and has the same overall design as all other NiloProbes.

- Head Ø (inner/outer) = Centrifuge (size) range inner 34 mm outer 40 mm

- Receiver: optodiode with front lens to ensure high sensitivity and resistance against external disturbance

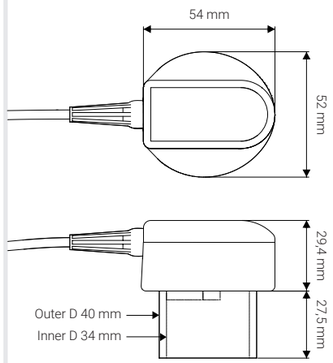
- Delivered with reflective tape to mount on one of the centrifuge arms to give well defined reflection

- Housing: softly rounded housing for excellent grip

It's compatibility and ease of use makes it attractive to the service engineer focusing on above mentioned laboratories.

Specifications

Light emission	Red Laser, wavelength 650 nm
Sensor type	Optodiode with front lens
Measure range	Distance up to 100 cm (0 – 40") Rotations: 10-12.000 RPM
Display resolution and update	1 RPM, one update per sec.
Compliance	CE with NiloChecker 500 • RoHs
Operating conditions	0 - 40 °C/5 - 85% RH
Cable length	0,5 m
Materials	Cable: PVC coated Housing: Nylon, Polycarbonate (PC)
IP Class	IP50
Calibration	Delivered with traceable factory calibration certificate Can be calibrated in accordance with ISO/IEC 17025 Calibration requires adaptor. Part no: 115s001



Ordering info **Part no: 145s001** - DLT145 Digital Laser Tachometer Probe - Delivered with factory calibration

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Document
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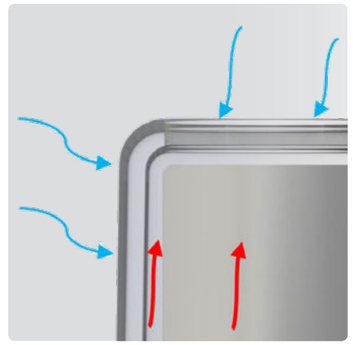
NiloBlock

A unique heating block concept for oocyte retrieval
An 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.

Application & Technology

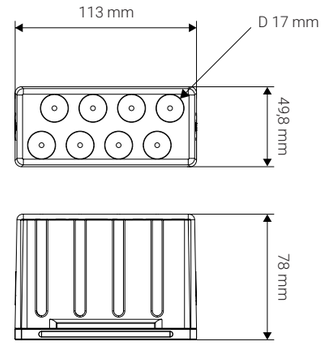
The important insulation
Block and Tubes are thermally insulated from the outside by a thin layer of air between block and cover. The insulation ensures a uniform temperature throughout the tubes.

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

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



Ordering info **Part no: 110s002** - NiloBlock

Document
110d001_02/2026

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Accessories

Accessories for our product range

Fermacidal 2 wipes, 70 pcs.

Ready-to-use alcohol-free disinfectant for surfaces and instruments

Smell-removal and neutralisation of odourcausing bacteria, does not stain, is blood-dissolving and has very good material compatibility with metals, rubber, plastic, wood, etc. The Fermacidal wipes are also suitable for disinfection of CO_2 incubators and ultrasonic probes.

Microbiological efficancy:
- Bactericidal, e.g.: *Salmonella, Mycobacterium tuberculosis*
- Fungicidal, e.g.: *Trichophyton mentagrophytes*
- Selective virucidal, e.g.: *Hepatitis B/C, HIV, Rotavirus, Influenza A, Corona viruses*

Ordering info
Part no: 130s002

Accessories

Accessories for our product range.

Calibration adaptor

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 callibrating the DG112 - CO_2 /O_2 probe

Ordering info
Part no: 112s002

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

Notes

A space for your thoughts, ideas and notes.

nilotech

Notes

A space for your thoughts, ideas and notes.

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02/2026