

nilotech



Nilotech Product Range

Quality control instrumentation
for specialized laboratories.



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

Nilotech measuring probes



Temperature



DT112



DT122



DT121



DT123



Gas concentration



DG126



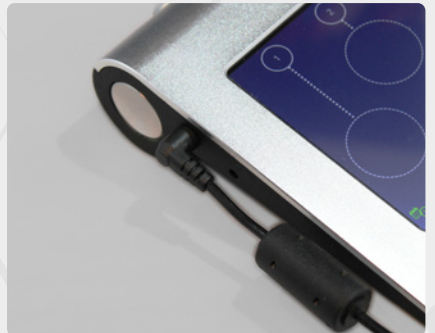
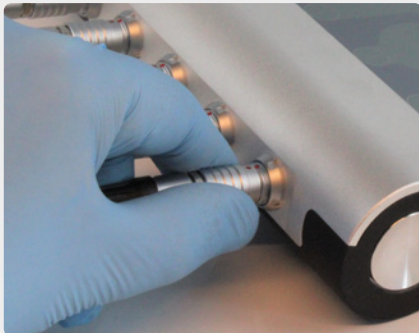
DG112



Air Velocity



DLV119





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 CO₂, O₂, 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

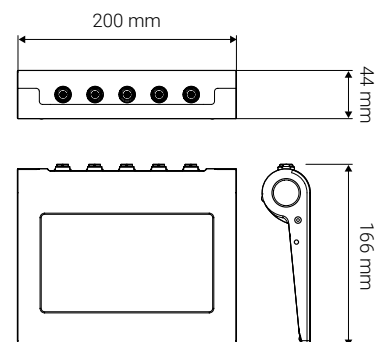
Compatible with CO₂, O₂, temperature, and air velocity sensors. simultaneous measurements up to 10 sensors on 5 ports.

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

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, IP 50
Power supply	12V / 30W - Wall plug adaptor - 100-240V
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

Nilotech Aps.

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Document
111d001



DG126

Digital CO₂/O₂ probe with pump

DG126 Digital Carbon dioxide (CO₂) and Oxygen (O₂) probe with pump is revolutionary in design and performance. Due to the small design and wide connection possibilities, the probe is equally useful for controlling 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 CO₂ and O₂ 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.

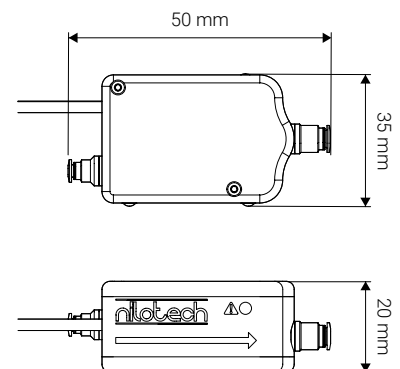
Output data

CO₂ and O₂ 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), < 15sec (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% ,1 update per sec.
Cable lenght	2 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. 0-50°C, Calibration requires adaptor. Part no: 115s001.
Operating conditions	5-95% RH (Non condensing)

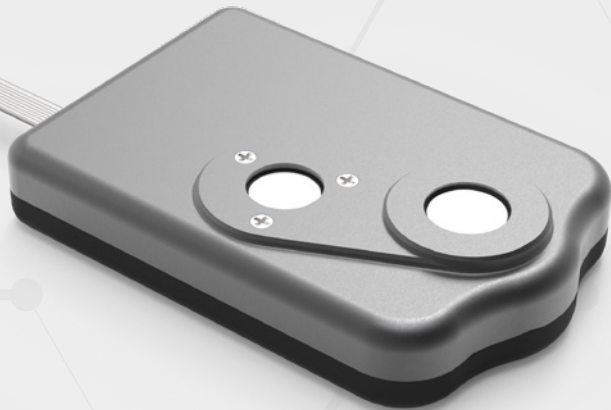


Ordering info

Part no: 126s001 - DG126 Digital CO₂/O₂ probe with pump. Delivered with factory calibration certificate.
Part no: 800s004 - Calibration of Nilotech gasprobe incl. factory and gas certificates

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DG112

Digital CO₂/O₂ probe

Measuring gas inside incubators are tricky, especially with gas analyzers aspirating gas from the incubator. Incubator stability can be influenced by even minute amounts of gas aspiration and the question often arise: When has enough gas been sampled. Measuring inside the incubator instead of aspirating gas, often result in more precise measurements.

Functions & Technology

CO₂/O₂ probe

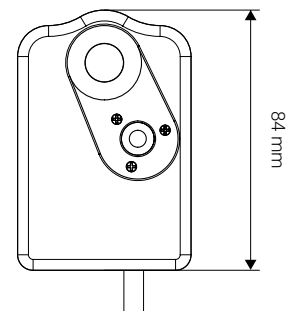
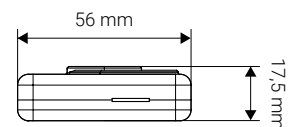
The new Digital Carbon dioxide (CO₂) and Oxygen (O₂) probe is revolutionary in design and performance.

Due to the flat design and flexible connection, the probe can be inserted directly into the desktop incubator chamber, allowing for long-term continuous measurements and not only spot-check. See NiloChecker documentation for advanced functions



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), < 15sec (CO ₂)
Compensation for ambient conditions	Temperature (20-40°C), altitude (700-1100 mbar)
Display resolution and update	0,1%, 1 update per sec.
Cable lenght	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: 800s004 - Calibration of Nilotech gasprobe incl. factory and gas certificates

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DT112

Digital temperature probe

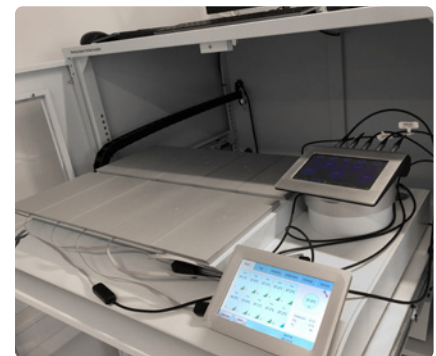
Correct temperature inside incubators or on heating plates is crucial for the survival of living cells. The flat temperature probe can be inserted into any type of incubator, without disturbing conditions. The copper bottom ensures good thermal contact to any type of heated surface and including non-metal surfaces.

Functions & Technology

Temperature probe

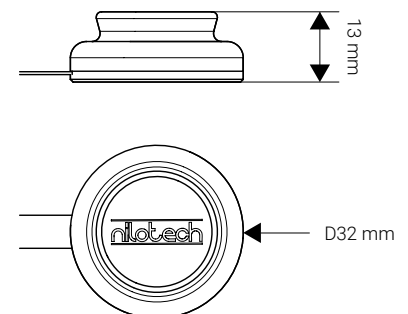
This new surface-temperature probe is ideal for controlling and calibration incubators and heating surfaces.

The bottom is made from copper to give optimal thermal contact. The probe can be placed on incubator shelf or bottom. Or it can be placed inside dishware. The insulated top minimize disturbance, when used for heating plates or inside flow cabinets.



Specifications

Sensor type	Digital temperature sensor
Measure range & accuracy	-20-50°C / 0,03°C accuracy possible.
Display resolution and update	0,01 °C, 1 update per second
T90 (min:sec)	1:45
Compliance	ISO/EN61010-1 - RoHS
	Medical grade sensor - ISO 80601-2-56
Operating conditions	0-50°C / 5-95% RH
Cable lenght	1,7m (including 0,5m 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 - DT 112 FC Digital Temperature Probe
Part no: 800s002 - Accredited calibration of 1 temperature sensor

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DT122

Dual digital temperature probe

Correct temperature inside incubators or on heating plates is crucial for the survival of living cells.

DT122 Dual Digital Temperature Probe is ideal for controlling and calibrating desktop incubators, box-type incubators and heated surfaces.

Functions & Technology

Dual temperature probe

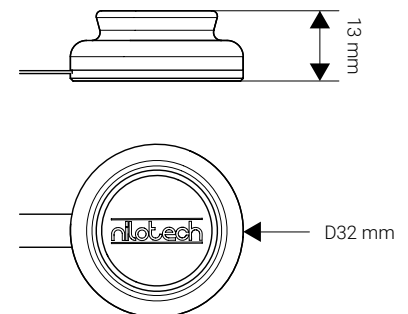
DT122 has 2 separate temperature sensors in one probe. With NiloChecker 500, you can measure and calibrate up to 10 positions or chambers simultaneously.

The unique sensor design has a copper bottom and insulating top, which ensures optimal thermal contact. All our sensors comes factory calibrated and can be delivered with a 3rd party certificate of accredited calibration.



Specifications

Sensor type	2 x Digital temperature sensors
Measure range & accuracy	-20-50°C / 0,03°C accuracy possible.
Display resolution and update	0,01 °C, 1 update per second
T90 (min:sec)	1:45
Compliance	ISO/EN61010-1 - RoHS
	Medical grade sensor - ISO 80601-2-56
Operating conditions	0-50°C / 5-95% RH
Cable lenght	1,7m (including 0,5m 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.

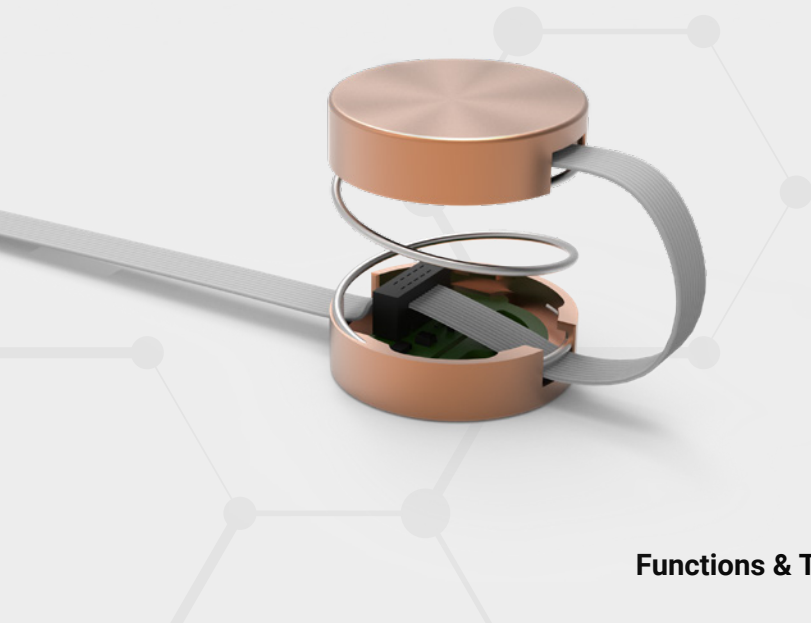


Ordering info

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

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DT121

Up-Down digital temperature probe

Ensuring the correct temperature inside incubators is crucial for the survival of living cells. Our new DT121 Up-Down Digital Temperature Probe has a unique design with a copper bottom and top which is separated by a spring. This ensures the perfect thermal contact to chamber floor and lid. For the first time you can measure both the top and chamber floor temperature at the same time with only one probe.

Functions & Technology

Dual measurements

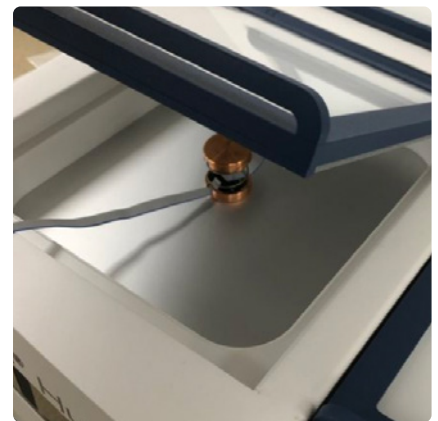
Our unique Up-Down probe is ideal for controlling and calibrating desktop incubators through its 2 digital temperature sensors.

Flexible design

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

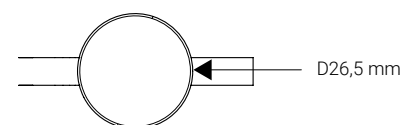
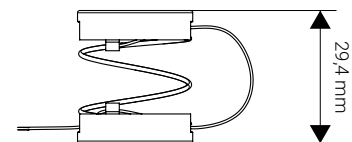
Ease of use

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	-20-50°C / 0,03°C accuracy possible.
Display resolution and update	0,01 °C, 1 update per second
T90 (min:sec)	1:45
Compliance	ISO/EN61010-1 - RoHS Medical grade sensor - ISO 80601-2-56
Operating conditions	0-50°C / 5-95% RH
Cable lenght	1,7m (including 0,5m 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.

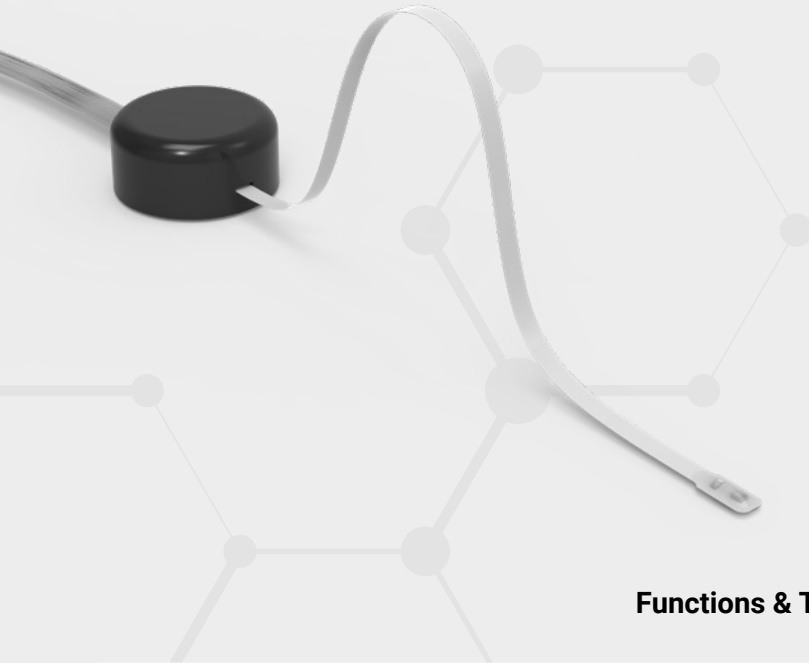


Ordering info

Part no: 112s001 - DT 121 Up-Down Digital Temperature Probe
(Delivered with factory calibration certificate)
Part no: 800s003 - Accredited calibration of 2 Temperature sensors.

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DT123

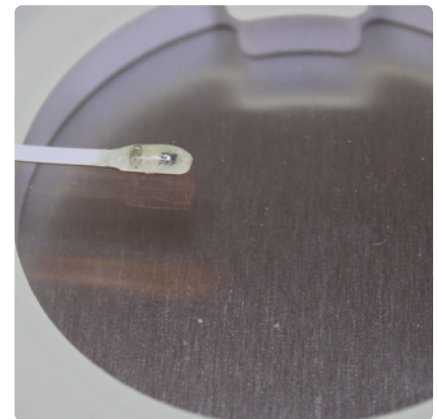
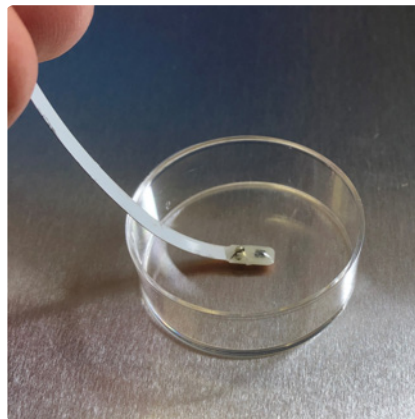
Digital dish-temperature probe

Ensuring the correct temperature inside dishes is crucial for the survival of living cells. Our new DT 123 Digital dish-temperature probe has a very thin 200 mm flexible wire and a small sensor at the tip. (4 mm wide, 0,5 mm thickness) This design allows you to measure liquid temperature in dishes or tubes. Due to the slim design the sensor temperature stabilizes quickly.

Functions & Technology

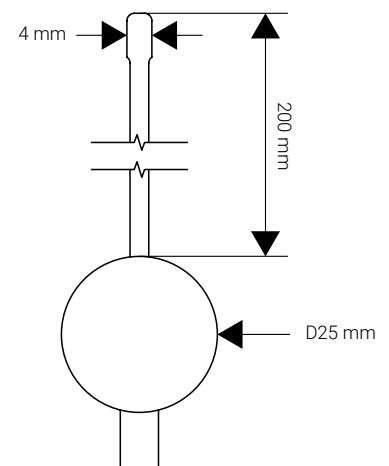
Dedicated temperature sensor for dishes and tubes.

DT 123 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, 1 update per second
T90 (min:sec)	0:45
Compliance	ISO/EN61010-1 - RoHS
	Medical grade sensor - ISO 80601-2-56
Operating conditions	0-50°C / 5-95% RH
Cable lenght	1,7m (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 - DT 123 Digital dish temperature Probe
(Delivered with factory calibration certificate)
Part no: 800s002 - Accredited calibration of 1 temperature sensor.

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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.

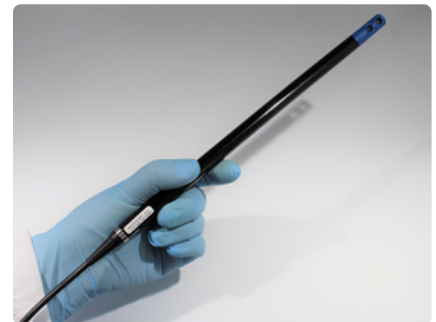


Functions & Technology

Functions and Technology

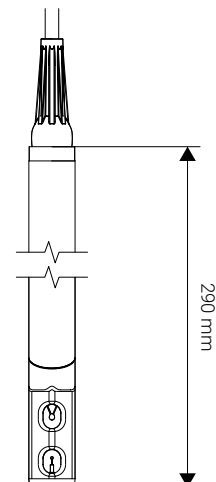
DLV119 is suitable for demanding applications, including those in corrosive or alkaline environments. With its robust, splash proof design, the DLV119 is designed to support a wide range of product and process control air flow applications.

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



Specifications

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, 1 update per sec.
Cable lenght	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). Aluminum (Cable ring)



Ordering info

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

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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.

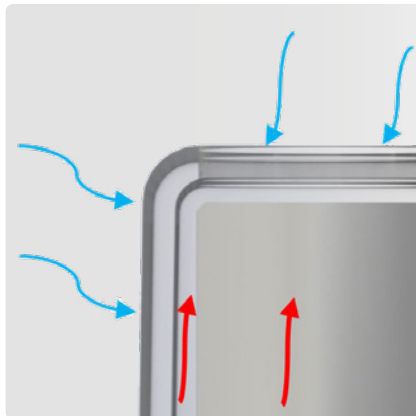
Functions & Technology

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.

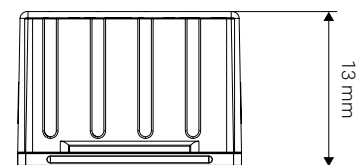
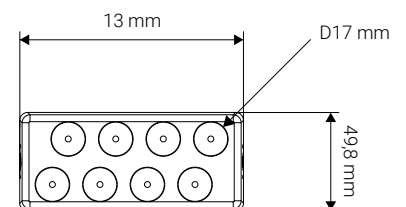
Smart cover

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

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



Ordering info Part no: 110S002 - NiloBlock

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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:



Calibration cap for DG112

Silicone cap for callibrating the DG112 - CO₂ /O₂ 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



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Accessories

Accessories for our product range

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



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