

Continuous pH measurements and quality control with the G185 SensorTech.

PH measuring is possible in the G185 SensorTech version by using an external system based on infrared monitoring, which unlike other systems ensure effective and highly accurate long term measurements without the need for cleaning. The system has a resolution of 0.01 pH and an accuracy of ± 0.03 pH.

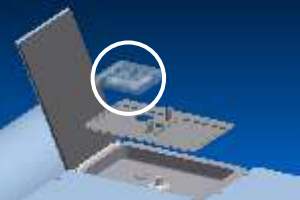
Optimal embryo growth development requires the proper pH in the growth medium. The optimal pH may differ for different media, but is usually recommended to be between 7.2 and 7.4.

The G185 SensorTech is designed to allow for external monitoring of both temperature and CO₂ to ensure continuous and effective quality control.

pH Online Sensor



Resolution 0.01 pH
Accuracy ± 0.03 pH
Range 5.5-9.0 pH



Pre-calibrated
Sensor Dish for Non-contact
Measurement



High precision instruments ensure effective calibration and monitoring

In order to properly calibrate and monitor the temperature and gas parameters in the G185 we offer a high precision thermometer and a highly accurate CO₂ + O₂ Analyzer. Using these accessories will ensure accurate calibration and control of the incubator over time.

Thermometer

The ASL WIKA CTH7000 is a high accuracy handheld thermometer offering:

- System accuracies better than 0.035°C over the full operating range.
- Stability: <0.005°C per year.



CO₂ and O₂ Gas Analyser

The gas analyzer is specifically designed to monitor CO₂/O₂ for verification and calibration of incubators.

It is fast, simple to use and highly accurate

- Fast verification of O₂ + CO₂ levels
- CO₂ 0-20%
- O₂ 0-100%



Monitor is Optional

Overall dimensions (WxDxH)
1100x830x1620mm
Weight: 100 kg.

Save space with the G185 and the K-Systems Stacking System

The Stacking system ensures space saving in the clinic and is designed with room for a computer at the bottom connecting to all three systems, allowing for central monitoring on one screen.

- Sliding shelves with soft closure function
- Cooling system for heat removal
- Tray system for tubes and cable
- Internal electrical sockets
- Internal power outlet for three incubators

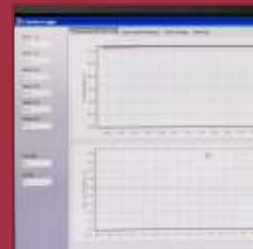


Technical specifications	G185 Standard	G185 SensorTech
Overall dimensions (WxDxH)	850x558x152,5 mm	850x558x152,5 mm
Weight	38 kg	38 kg
Temperature range in chambers	Ambient to 42,9°C	Ambient to 42,9°C
CO ₂ / O ₂ – range in chambers	2-10% / 2-20%	2-10% / 2-20%
Connection to 100% CO ₂ and 100% N ₂	✓	✓
Gas consumption	0,7 l/h CO ₂ & 7 l/h N ₂	0,7 l/h of CO ₂ & 7 l/h of N ₂
Recovery time	CO ₂ : < 2 min; O ₂ : < 4 min	CO ₂ : < 2 min; O ₂ : < 4 min
Datalogger system	✓	✓
Prepared for pH monitoring	✓	✓
Prepared for external CO ₂ - und temperature measurement	✓	✓
SMS alert function (optional)	✓	✓
Ambient humidity and temperature	max 75% RH & 20-30°C	max 75% RH & 20-30°C
Heating plates	NUNC/Falcon/Vitrolife	NUNC/Falcon/Vitrolife

Designed and Optimized for Human IVF

G185

Long Term Flat Bed Incubator



G185 and G185 SensorTech



Grade A Air Quality

**No
Premixed
Gas
Required**

**Data
Logging
Included**

Adjustable CO₂ and O₂ Range

**Fast
Recovery
Time**

Low Gas Consumption

**Stable
temperature
conditions**

Unrivalled environmental control to ensure optimal conditions for embryos and eggs

Stable pH levels are achieved through the combination of K-Systems heating and gas control system

The G185 ensures safe and careful incubation, giving the best conditions for optimal embryo development. Stable pH levels and osmolality of the medium during culture is ensured.

All critical parameters are monitored and controlled chamber by chamber, which ensures:

- Stable pH
- Stable heating
- Stable gas levels

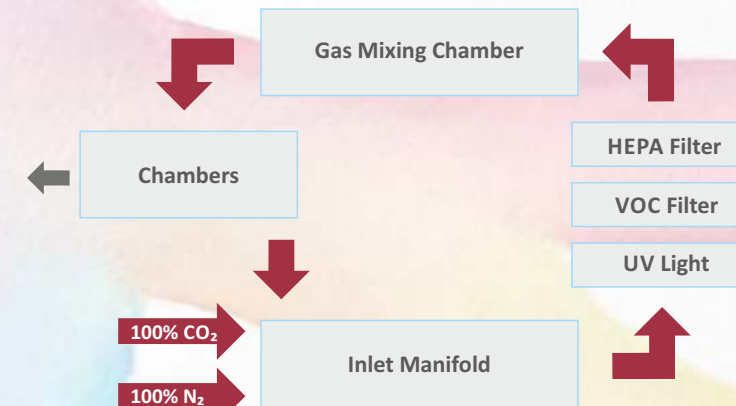
The chamber-by-chamber temperature control combined with the direct heat from the heating plates to the cultures ensures optimal temperature conditions at all times.



The integrated gas mixing system gives you the option to mix CO₂ and O₂ to your specifications. Before entering the gas mixing chamber, the gas circulates through multiple filters:

- HEPA filter to remove airborne particles
- UV light to eliminate organic microbes
- VOC filter to remove organic compounds

The special flow system ensures constant grade A gas in each chamber. Each individual chamber recovers in less than 2 minutes.



Working with an oil overlay in the G185 will delay gas diffusion and help stabilize the PH levels and osmolality of the medium during culture.

Fewer stress factors for the embryos

The G185 is designed to minimize the stress factors to the embryos.

The G185 is a non-humid incubator, which strongly minimizes the risk of fungal growth inside the incubator and makes it easier to clean. The use of the oil overlay helps separate the medium from the atmosphere and any airborne particles or pathogens.

The incubator includes 10 individual incubation chambers to ensure minimal metabolic stress and risk of cross contamination for the embryos.

**Everyday embryo culture
made effective, easy
and reliable**

With the best embryo conditions combined with an intuitive design and low running costs the G185 is the ideal work horse in a busy clinic

Due to its design the G185 will accommodate up to 10 patients and help you save significant space in your clinic

With the one-step lids, indicator lights and an effective “control bar” using the system on a daily basis is simple and straight forward.

The unit can be connected to CO₂ alone or you can add N₂ to reduce the oxygen level.

The G185 uses pure CO₂ and N₂ gas. Combined with the limited gas intake when opening a chamber, this ensures low annual running costs.



Dimensions: 970x558x152,5 mm
Weight 38 kg

Stable and reliable results now and in the future

With more than 700 IVF installations around the world and clinical trials and validations proving its effectiveness, the G185 has been proven to be a very effective long term incubator.

Effective monitoring and quality control built in

Through detailed monitoring and alarm systems you can react quickly and effectively to changing conditions in the incubator

The G185 is equipped with extensive alarm and monitoring options. This assures you that the conditions in the incubator are constantly monitored and you can react quickly if conditions changes.

All versions include a data logging package which allows you to monitor and log all vital parameters.

- Temperature control of each zone
- CO₂ & O₂ gas concentration
- CO₂ & O₂ gas flow and pressure
- Daily averages for all parameters
- Alarm record register
- E-mail signal function when an alarm is activated

All data are logged as an excel file and can be connected to a folder on a dedicated PC. 3 x G185's can be monitored from one PC.

