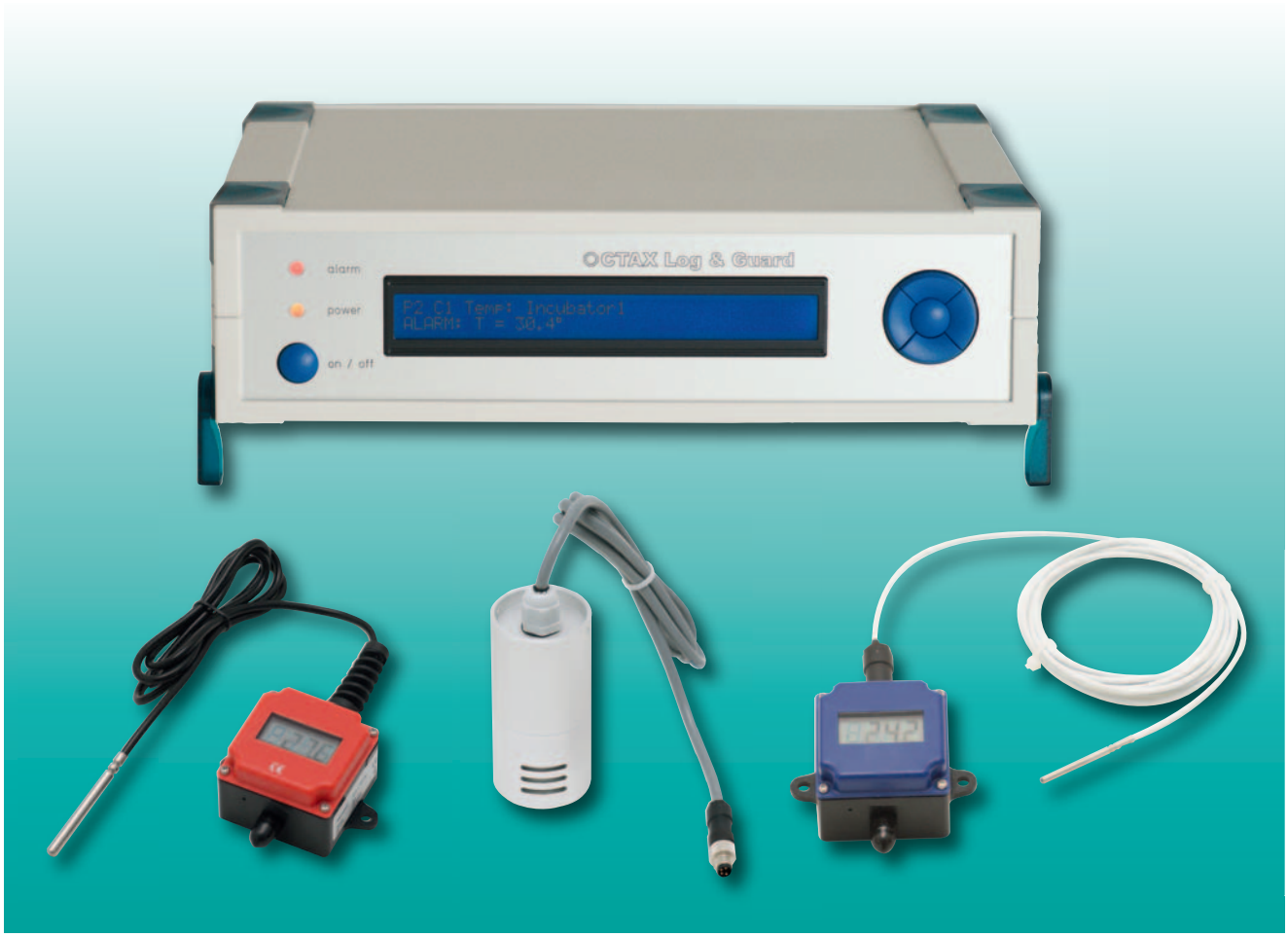
# OCTAX Log & Guard™




## Monitoring, Documentation, Alarming for IVF

The maintenance and control of all culture and storage parameters in IVF and cryopreservation labs are key elements of quality management systems and various directives. OCTAX Log & Guard™ is the only monitoring and alarming system which has been specially designed for IVF. It is able to independently monitor temperatures in incubators, fridges and $LN_2$ storage tanks, media pH (via pH Online™), $CO_2$ in incubators as well as mains supply.

Measurements are taken through peripheral temperature, pH or $CO_2$ sensors and saved to an internal flash memory independent from any PC. Log & Guard™ raises alarm if any of the values deviates from the pre-defined normal range. Alarming can be done via acoustical / optical signals, by relay output or by sending an SMS to mobile phones. Visualization and download of logged data as well as easy channel management is done via web interface from any PC in the intranet.

## Specifications

Power supply: 110 – 240 V AC via external power adapter; battery backed
Dimensions: 360 x 300 x 90 mm (WxDxH)
Number of temperature sensors to be connected: max. 54
Number of pH Online™ sensors to be connected: max. 24
Number of $CO_2$ sensors to be connected: max. 180
Measuring intervals: infinitely variable
SMS alarming: SIM card required

## Advantages

- Universal device for measurement, documentation, alarming: many tasks – one solution!
- Most flexible & extendible
- Web interface based software – no PC needed
- Easy to use

**Ref. No. 14840/0000**
OCTAX Log & Guard™ monitoring & alarming device

**Ref. No. 14840/0200**
Temperature sensor for incubators, fridges, freezers, starter including with level converter

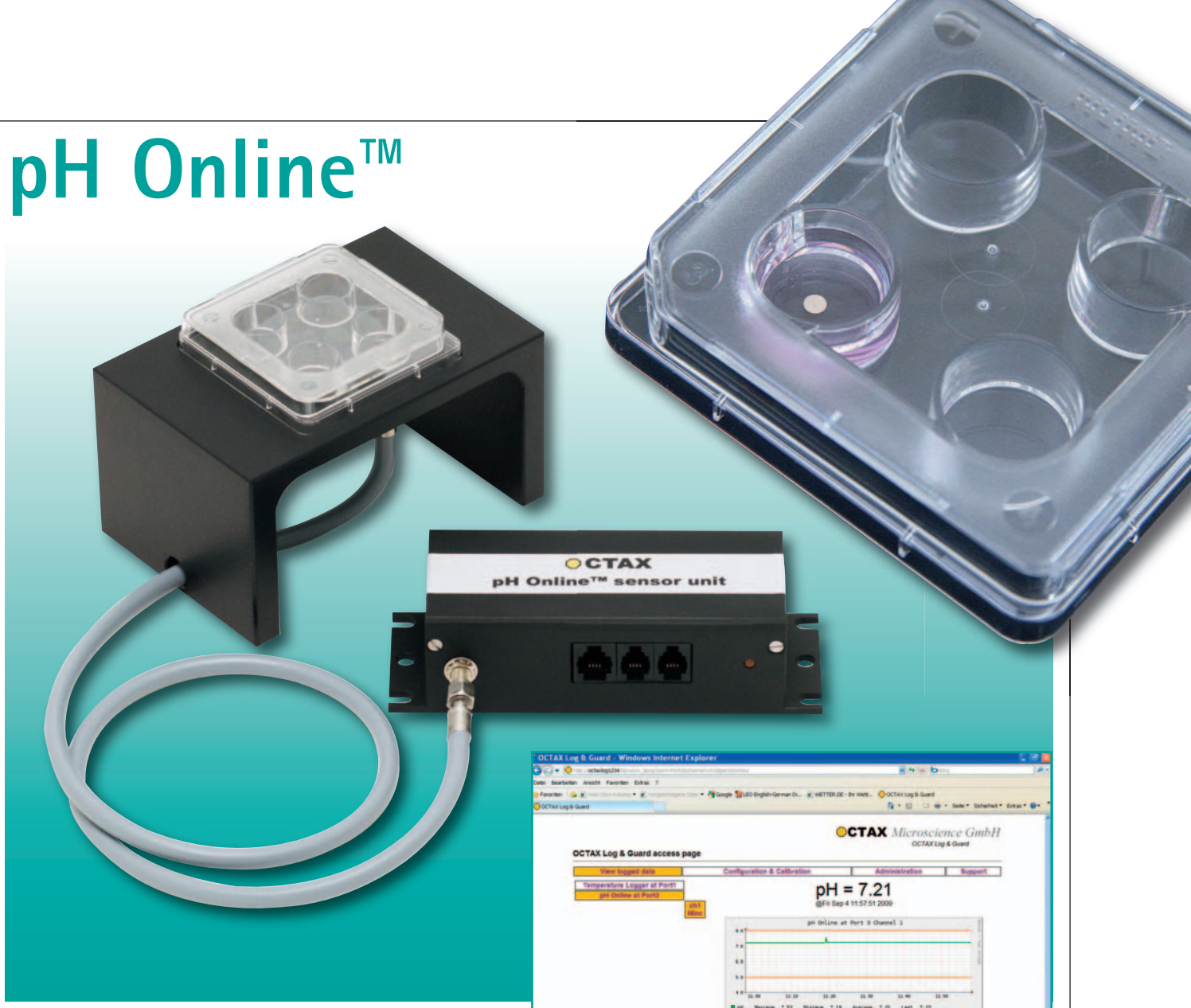
**Ref. No. 14840/0201**
Temperature sensor for incubators, fridges, freezers, additional device

**Ref. No. 14840/0210**
Temperature sensor for $LN_2$ storage tanks, starter including level converter

**Ref. No. 14840/0211**
Temperature sensor for $LN_2$ storage tanks, additional device

**Ref. No. 14840/0300**
$CO_2$ sensor for incubators

# pH Online™







## Continuous pH recording from incubators

pH is one of the most critical parameters regarding the performance of culture media. The embryo´s internal pH which is known to regulate various metabolic and transport processes can only be maintained in an appropriate environment. Typically, checking media pH by conventional pH meters is too cumbersome and time-consuming to be done in regular intervals.

pH Online™ is able to continuously monitor media pH in a reference dish placed in the incubator. Measurement is based on a non-contact, internally referenced dual luminophore technology which has huge advantages over conventional pH electrodes.

Second generation pH Online™ is operated via the OCTAX Log & Guard™ controller providing a sophisticated and extremely user-friendly software environment. New features comprise pH measurement and logging independent from a PC, web interface based data access, various alarming options and single point calibration.

pH Online™ sensor unit for pH measurement in one incubator, cpl. with holding rack for the sensor dish, optical fiber, manual and 10 sensor dishes (10 weeks measurement), requires OCTAX Log & Guard™ controller.
**Ref. No. 14840/0100**

Sensor dish for pH Online™, sterile, individually packed, shelf life 18 months
**Ref. No. 14850/8998**

## Specifications

Resolution: 0.01 pH
Accuracy: ± 0.03 pH
Measuring range: pH 5.5 – 9.0
Power supply: 12V DC
Dimensions: sensor unit 47 x 134 x 36 mm (LxWxH); holding rack for dishes 80 x 120 x 65 mm (LxWxH)
Connections: serial interface to OCTAX Log & Guard™ device, heat resistant optical fiber to sensor dish

## Advantages

- No pH drift
- Pre-calibrated
- Easy to use
- Disposable sensor dishes – no cleaning or sterilization
- Unique sensor technology for long term measurement