

# IKA

designed for scientists

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## Product News August 2024

Innovative bioreactor solutions for your research



HA.lh

## Desktop lid holder

/// Static holder for HABITAT bioreactor vessel lids

The new desktop lid holder is a static benchtop holder designed for assembling and disassembling all lids of Habitat bioreactor vessels. It serves as an alternative to the IKA liftable lid stand

### YOUR BENEFITS

- › Compatible with lids from 0.5 L to 10 L vessels
- › Provides a stable solution for secure lid handling
- › Prevent sensor damage
- › Simplifies the assembly and disassembly process
- › Increases ergonomics by reducing strain and improving comfort



HA.sfh.250

## Sample flask holder

/// Secure holder for autoclaving 250mL bottles on HABITAT vessels

HABITAT's new sample flask holder attaches 250 mL bottles to vessels for autoclaving, enhancing efficiency and safety

### YOUR BENEFITS

- › Holds up to four 250 mL sample bottles
- › Enables single-person loading into the autoclave
- › Ensures safe and stable bottle attachment
- › Minimized footprint on the lab bench
- › Fits all vessel sizes



HA.adp.od12

## Sensor height adjustment adapter

/// Adapter for flexible positioning of invasive sensors and dip tubes

Designed for flexible height positioning of invasive sensors and dip tubes in bioreactors. Ensures precise placement for accurate measurements across various vessel volumes and configurations

### YOUR BENEFITS

- › Adjustable height for invasive sensors
- › Ensures accurate measurements tailored to specific needs
- › Compatible with various vessel volumes and configurations
- › Improves overall sensor performance and data reliability

## /// ACCESSORIES



### Condenser with flexible joint

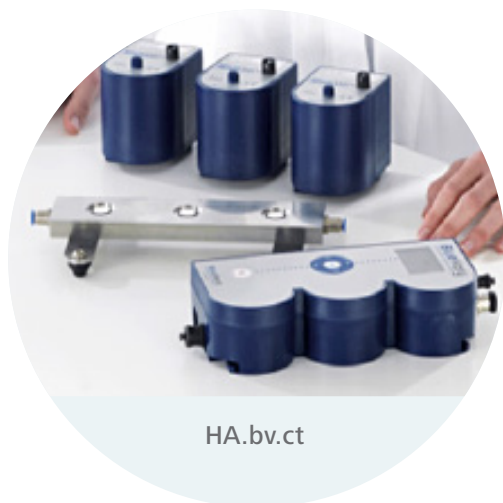
/// New standard

**Larger condenser for larger vessels with a flexible joint for easier loading of the autoclave**

#### YOUR BENEFITS

- › New standard for 2 L (dw), 5 (sw, dw) and 10 L (dw) vessels
- › Easy loading and unloading of the autoclave
- › Improved performance in chilling and condensing
- › Minimized liquid loss in the vessels

## /// SENSORS



### BlueVary BlueSens analyser

/// Off-gas analyser for O<sub>2</sub> and CO<sub>2</sub> measurements

**Uses interchangeable sensor cartridges to measure gas concentrations, providing real-time, maintenance-free data**

#### YOUR BENEFITS

- › Measures O<sub>2</sub> and CO<sub>2</sub> levels in the off-gas
- › Ensures long-term reliability and ease of use
- › Provides real-time data and insights for better process analysis, e.g. automated calculation of RQ, OUR and RQ feeding



### Invasive biomass sensors - Exner (EXcell 231)

/// High-precision NIR absorption sensor for monitoring biomass

**Near-infrared technology based biomass monitor with variable lengths for different vessel volumes for varying cell densities**

#### YOUR BENEFITS

- › Path lengths of 5, 10, and 20 mm for varying cell densities
- › Economical solution for biomass monitoring



### Non-invasive biomass sensor - sbi (CGQ BioR)

/// Optical sensor for measuring biomass

**Non-invasive light backscattering enables real-time biomass measurement from the side of the vessel**

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#### YOUR BENEFITS

- › Economical solution that frees up a bioreactor port
- › Suitable for a wide variety of microbial organisms
- › Provides real-time data without internal probes



### Viable biomass sensor - Hamilton (Incyte Arc Expert)

/// Sensor to distinguish dead from viable cell mass in cultures

**Invasive sensors that differentiate viable from dead cells, providing crucial data for various vessel sizes and culture applications**

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#### YOUR BENEFITS

- › Ideal for cell culture processes
- › Provides detailed and reliable biomass data
- › Available in different lengths to fit various vessel volumes



### Digital pH sensor - Hamilton (EasyFerm Bio HB Arc)

/// Digital sensor for measuring pH levels

**Digital pH sensors support metabolic activity by maintaining optimal pH levels for enzymatic reactions and cellular processes**

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#### YOUR BENEFITS

- › Precise pH measurement with pre-calibrated sensors
- › Advanced alternative to standard analog pH sensors
- › Available in different lengths to fit various vessel volumes



HA.s.do.dig

## Digital Polarographic DO sensor - Hamilton

(OxyFerm FDA Arc)

/// Digital polarographic sensors for measuring dissolved oxygen concentration

**Digital polarographic DO sensors monitor dissolved oxygen levels, supporting cellular respiration and productivity**

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### YOUR BENEFITS

- › Outperforms standard analog DO sensors regarding traceability and data recording
- › Available in different lengths to fit various vessel volumes



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## Digital Optical DO sensor - Hamilton (VisiFerm RS485 Cap H3)

/// Digital sensors for measuring dissolved oxygen concentration

**Monitors dissolved oxygen with luminescence quenching and temperature compensation, avoiding polarization time**

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### YOUR BENEFITS

- › Includes temperature compensation
- › DO values based on luminescence quenching
- › Highly durable and requires significantly less calibration



HA.s.rox

## Digital Redox sensor - Hamilton (EasyFerm Plus ORP Arc)

/// Digital sensor to measure Oxidation-Reduction Potential (ORP)

**Monitors redox levels using a pressurized electrolyte and integrated Arc technology, minimizing fouling and drift**

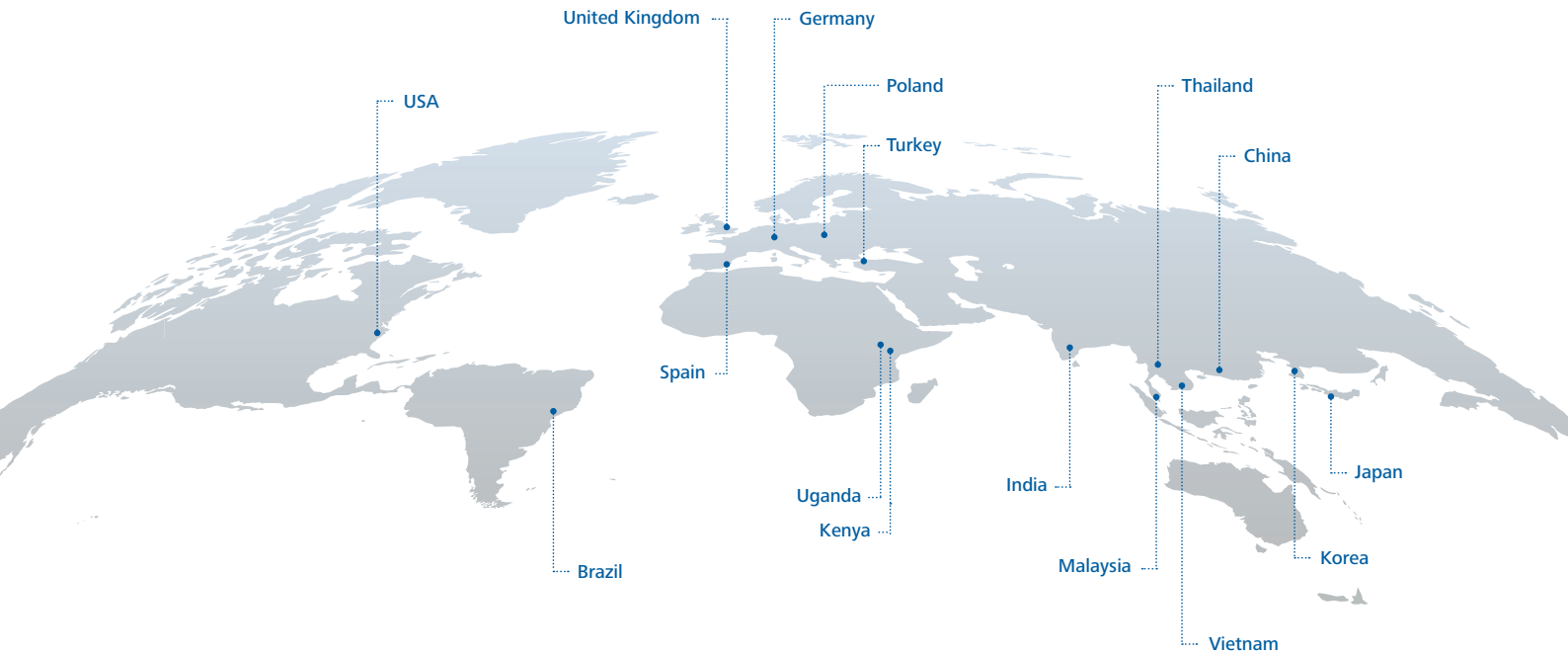
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### YOUR BENEFITS

- › Enhanced ORP measurement for anaerobic fermentation
- › Available in different lengths to fit various vessel volumes
- › Advanced alternative for improved process control



designed for scientists



## Global Partner for BioProcessing Solutions

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