



Excalibur HY 25 (Hygienic 3-A)

EFFICIENT CONTROL OF PRODUCTION PROCESSES
IN HYGIENIC APPLICATIONS

TRANSMISSION PROBE
FOR ONLINE
SPECTROSCOPY

HIGH SAFETY THROUGH
3-A CERTIFICATION

FOR DIRECT USE IN THE
PRODUCTION PROCESS

EFFICIENT CONTROL OF PRODUCTION PROCESSES IN HYGIENIC APPLICATIONS

Legal Compliance in Hygienic Production

The requirements related to a hygienic production are constantly increasing, especially in the food and pharmaceutical industries. The most established standard in this context is the US 3-A sanitary standard. The hygiene criteria specified therein were originally intended for technical plant equipment in the dairy industry and set some of the highest standards allowing it to be used in many other industries and countries.

The Specialist for Modern UV/Vis & NIR-Spectroscopy

Optical immersion probes from Hellma enable the inline monitoring of production processes in real time through spectroscopic analysis. The Excalibur 3-A immersion probe is suitable for measurements in the UV-, Vis- or NIR-range. This product combines robust materials with a hygienic design and can still be adapted to local requirements.

TROUBLE-FREE OPERATION

- Suitable for CIP (cleaning in place) and SIP (sterilization in place)
- Use of sapphire optics
- Wear-free sealing of the optics

SIMPLE INTEGRATION – SIMPLE METHOD TRANSFER

- Very high precision achieved by state of the art technology such as electron beam welding
- Adaptable path length to match the respective application
- Use of standard flanges with selectable immersion depth

ADVANTAGES OF THE EXCALIBUR 25 (HYGIENIC 3-A)

- High safety through 3-A certification (no. 46-04)
- Hygienic Design
- Easy Handling and Cleaning
- Use of FDA/USDA compliant materials
- 3-A compliant manufacturing process to avoid cross contamination



TYPICAL APPLICATIONS

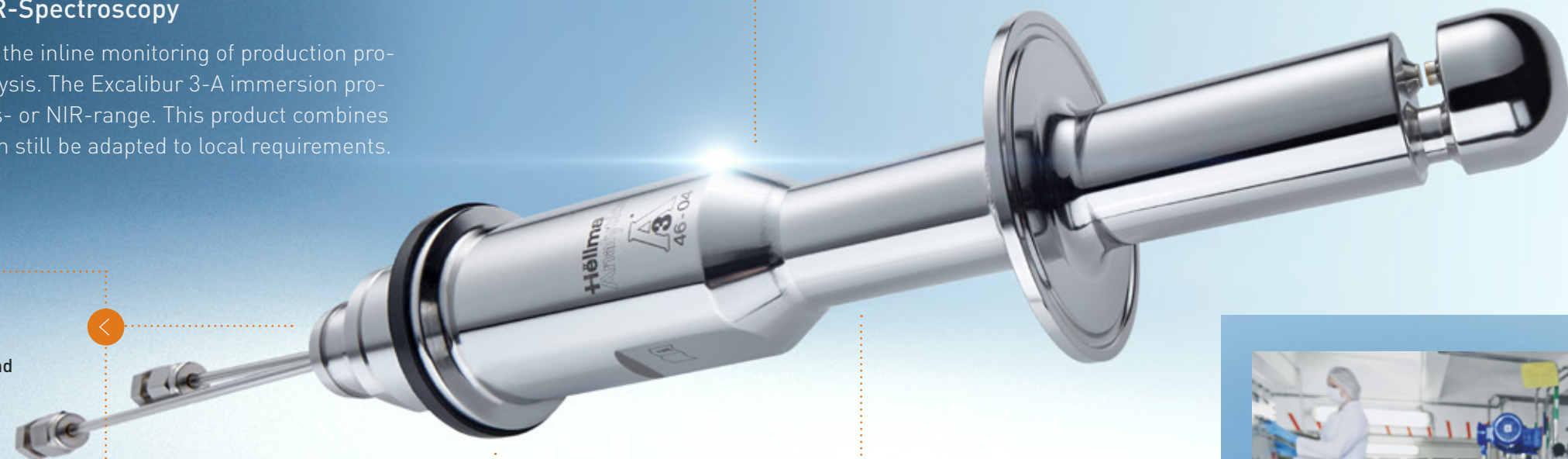
- Quantitative analysis of proteins, fat, water and lactose in milk
- Control of milk separators in the dairy industry
- Quantitative analysis of sugar, vitamins or concentrates in milk production and other production processes
- Monitoring artificial colorings and flavorings in soft drinks
- Control of disinfectants in food processing plants
- Phase separation in the pharmaceutical industry
- Color and turbidity measurements

IMMERSION PROBE CONFIGURATOR

Hellma offers the world's largest product selection and the highest level of expertise to support your online measurements from UV to IR.

Find the right immersion probe/measuring cell quickly and easily or configure your individual solution at:

configurator.hellma.com



Simplified depiction of milk products and
process steps.
Fields of applications of the Excalibur
HY 25 (Hygienic 3-A)



Hellma is a technology pioneer in the Process Analytical Technology industry and a supplier of spectroscopic probes and measuring cells. Our performance and competence has helped to accomplish over 1,000 metrology projects worldwide in the last 25 years.

If you have plans for a metrological project or you need to solve a measurement task? Contact us, we are pleased to advise you!

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