



INTEGRATED  
SPECTROSCOPY SOLUTIONS  
FOR YOUR INDIVIDUAL  
APPLICATION



# Welcome to Hellma® Solutions

For Dedicated Spectroscopy Applications

To gain the full benefits of process analysis and control requires ever more complex measurement techniques. Off-the-shelf and pre-configured equipment packages limit current and future capabilities while **custom solutions** can be tailored to precisely match your application and enable sensor-to-result integration.

Our team of experts design and develop custom solutions independent of specific technology or equipment. This allows us to make use of the latest and most suitable technology and techniques and to offer you the best possible solution for your application.

All advantages at a glance >

SPECTROSCOPIC  
ENGINEERING  
MADE IN GERMANY



## Hellma® Solutions

For Dedicated Spectroscopy Applications

### FOR MOST EFFICIENT MEASUREMENTS IN YOUR APPLICATION

Design your processes more efficiently with precisely tailored solutions. The Hellma Solutions division covers the entire portfolio of services needed to solve an optical measurement task.

### One Team – One Dedicated Contact

We deal with all the details related to your task. Working with you, our project team develops precisely tailored solutions offering you a single source for all your requirements.

To ensure reliable and continuous workflows you have one designated contact person who is informed about all relevant activities and decisions and also takes care of your requests and questions from start to completion.

! Our worldwide contact details are given on the backside of the brochure

### From Sample to Sensor to Result

With years of experience in matching our probes and flow-cells to complex and aggressive samples, in difficult physical and environmental conditions, we are able to cope with a multitude of requirements.

While our experience in spectroscopic measurements in lab and process situations allows us to respond to a wide range of user applications. The requirements for ease-of-use, clear and understandable readouts and direct results, along with traceability and conformance to regulatory requirements are part of our DNA.



#### We offer custom measurement solutions for the following areas:

- Petrochemicals
- Pharmaceuticals
- Biotechnology
- Food/Beverage
- Life Science
- Chemicals
- Plastics
- Animal Feed
- Agriculture
- ... other

### Everything from One Source

Our wide-ranging expertise enables us to offer finely tuned procedures for progressing through a defined project. Our portfolio of competences is detailed to the right.

Our projects with you can range from analysis-to-solution consulting, design and development, process integration, up to training and maintenance. We are happy to tailor our services to your specific needs and therefore also offer individually matched packages to meet your requirements.

#### Our service portfolio at a glance:

- Components
- Methodology
- Electronics
- Systems
- Software
- Chemometrics
- Application Knowledge
- Process Integration
- Service and Maintenance



# From Analysis to Training and Maintenance

Each project is controlled in a systematic and well-structured way to give the best-possible result for your application. The graphic below shows the typical steps for the full implementation of a Process Analytical Solution.

Based on a professional project management, we accompany you competently throughout the entire process of the solution development. You can use the full range of our services or only single services on request. Every new project step is prepared, discussed, released and implemented in agreement with you. You keep complete control and transparency of our joint project.

Typical steps for the full implementation of a process analytical solution:



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

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.

Today, Hellma Solutions stands for an integrated and independent solution development with the aim of achieving the best possible result for our customers.

Call us, we are pleased to assist you!

## > Our service portfolio at a glance

Select the full-service package or individual services.  
Whichever you choose your application always remains our focus.

<b>&gt; Solution Consulting</b> <ul style="list-style-type: none"> <li>• Competent consulting through an interdisciplinary team</li> <li>• Independent and non-proprietary selection of components and systems</li> <li>• Individual application consulting</li> <li>• „Quick Check“ for an initial concept of a solution</li> </ul>	<b>&gt; Project Management</b> <ul style="list-style-type: none"> <li>• Moderation</li> <li>• Project leadership</li> <li>• Conducting workshops</li> <li>• One dedicated contact person</li> <li>• Project planning, control and monitoring</li> <li>• Provision of aids, techniques and tools</li> <li>• Organizing the communication and documentation</li> </ul>	<b>&gt; Concept and Planning</b> <ul style="list-style-type: none"> <li>• Creation of the business model</li> <li>• Assistance with the preparation of technical specifications</li> <li>• Identification of potential solutions</li> <li>• 3D Modelling</li> <li>• Preparation of presentations for decision makers</li> <li>• Meetings</li> </ul>
<b>&gt; Feasibility Study</b> <ul style="list-style-type: none"> <li>• Conducting test measurements and interpreting results</li> <li>• Carrying out Proof of Concept (in our own application laboratory)</li> <li>• Assembling technical specifications</li> </ul>	<b>&gt; Compliance/Regulations</b> <ul style="list-style-type: none"> <li>• Checking legal requirements and regulations of the solution (e.g. CE, 3A, etc.)</li> <li>• Approvals</li> <li>• Drawing up a recommendation for further action</li> <li>• Patent research</li> </ul>	<b>&gt; Analysis of Potential and Benefit</b> <ul style="list-style-type: none"> <li>• Analysis of economic efficiency (Return on Investment)</li> <li>• Preparation of a risk analysis</li> <li>• Identifying potential savings</li> </ul>
<b>&gt; Solution Development and Implementation</b> <ul style="list-style-type: none"> <li>• Method development</li> <li>• Everything from a single source</li> <li>• Provision of flow analysis</li> <li>• Carrying out of the system integration</li> <li>• Conducting a FMEA analysis (failure modes and effects analysis)</li> <li>• Application of the defined requirements by means of a prototype</li> <li>• Performance test in live application</li> <li>• Development of optimal solution</li> <li>• Realization of the solutions as defined in the technical specifications</li> <li>• Complete documentation of the product and the solution</li> </ul>	<b>&gt; Putting into Operation</b> <ul style="list-style-type: none"> <li>• Qualification of the design</li> <li>• Qualification of the function</li> <li>• Providing documentation to support the implementation of the solution</li> <li>• Implementation of the solution</li> <li>• Factory Acceptance Test (FAT)</li> <li>• Site Acceptance Test (SAT)</li> </ul>	<b>&gt; Training</b> <ul style="list-style-type: none"> <li>• Operator training</li> <li>• Service/maintenance training</li> </ul>
		<b>&gt; After Sales Service</b> <ul style="list-style-type: none"> <li>• Technical support</li> <li>• Maintenance and recertification</li> <li>• Software Services</li> </ul>



## Not to be missed!

The annual event for PAT experts and people interested in PAT

The leading event on Process Analytical Technology. Listen to impulse speeches from qualified PAT experts reporting from the field and sharing their extensive knowledge.







The annual event for PAT-experts & PAT-interested people

Process analysis technology (PAT) is establishing in more and more areas of the manufacturing industry and is increasingly becoming an indispensable part of it. The PAT-Forum provides space for discussion and exchange - it is a platform to connect with experienced specialists and benefit from mutual knowledge. The PAT-Forum is held in German language.





## ASIA

**Hellma Asia Pte Ltd**  
1 Commonwealth Lane  
#09-33 One Commonwealth  
Singapore 149544  
phone +65 6397 4138  
fax +65 6397 4139  
info.asia@hellma.com

## EUROPE

**Hellma GmbH & Co. KG**  
Klosterrunsstraße 5  
79379 Müllheim  
Germany  
phone +49 7631 182 1010  
fax +49 7631 182 1011  
solutions@hellma.com

**Hellma Benelux BVBA**  
Hogen Akkerhoekstraat 14  
9150 Kruibeke  
Belgium  
phone +32 3 877 33 27  
fax +32 3 887 10 26  
info.be@hellma.com

**Hellma France S.A.R.L.**  
35 rue de Meaux  
75019 Paris  
France  
phone +33 1 42 08 01 28  
fax +33 1 42 08 13 65  
info.fr@hellma.com

**Hellma Italia S.r.l.**  
Via Gioacchino Murat, 84  
20159 Milano  
Italy  
phone +39 02 261 164 19  
fax +39 02 261 133 31  
info.it@hellma.com

**Hellma Schweiz AG**  
Schwäntenmos 15  
8126 Zumikon  
Switzerland  
phone +41 44 918 23 79  
fax +41 44 918 08 12  
info.ch@hellma.com

**Hellma UK LTD**  
Cumberland House  
24-28 Baxter Avenue  
Southend on Sea,  
Essex SS2 6HZ  
United Kingdom  
phone +44 1702 335 266  
fax +44 1702 430 652  
info.uk@hellma.com

## THE AMERICAS

**Hellma USA INC.**  
80 Skyline Drive  
Plainview, NY 11803  
USA  
phone +1 516 939 0888  
fax +1 516 939 0555  
info.us@hellma.com

**Hellma Canada Ltd.**  
7321 Victoria Park Avenue,  
Unit 108  
Markham, Ontario L3R 2Z8  
Canada  
phone +1 905 604 5013  
fax +1 905 604 5015  
info.ca@hellma.com

**Find all international  
contacts on:  
[www.hellma.com/kontakt](http://www.hellma.com/kontakt)**