

PROCESS ANALYTICS



INNOVATION

ENGINEERING

OPTIMIZATION

Online Waste Water Analysis: A standardized measurement container with analyzer modules

Our Service ...

The Process Analyzer Technology Department of Bayer Technology Services offers you a proven concept based on analyzer modules and containers to solve all problems in waste water measurement technology.

This concept is strictly modular and uses analyzer modules which are available for every task in waste water measurement and which are optimized based on operational experience. Each analyzer module is built on a panel with well defined interfaces.

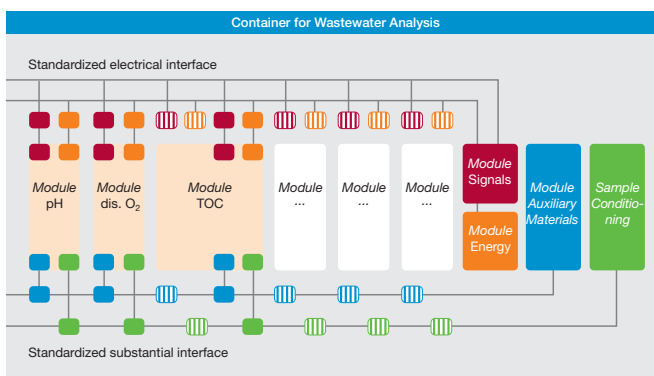
The advantage of this modular approach is the standardization of the interfaces for the fluids and for the electrical connections. The analyzer modules which are built according to this design can be used in every standardized measurement container. This modular system is open and flexible for further requirements, modifications and retrofitting.

The measurement container is equipped with suitable electrical and chemical "plug-in locations" so that each analyzer module can be hooked up wherever wanted without difficulty.

... is your profit.

The modular concept – resulting from years of experience – guarantees you a maximum of flexibility and cost effectiveness with the following particular advantages:

- The measurement container can be provided just with the analyzer modules needed
- Maximum flexibility with no interface problems, spare plug-in locations allow easy retrofitting or modifications
- Optimized analyzer module design with well proven technology



Bayer Technology Services
Powering Your Performance

If you already know what needs to be measured simply choose from the analyzer modules in the table below and design your individual package:

Analysing Modules	
TEF	Turbidity
SAC	Spectral absorption coefficient
Color	Color measurement
pH	Acidity
LF	Conductivity
O ₂	Dissolved oxygen
COD	Chemical oxygen demand
BOD	Biological oxygen demand
TC/TOC/NPOC	Dissolved organic carbon
POC	Volatile organic carbon
P _{tot}	Total phosphorus
PO ₄ -P	Ortho-phosphate
NO ₃ -N	Nitrate
NO ₂ -N	Nitrite
NH ₄ -N	Ammonium
TOX	Toxicity

Our team will be happy to consult you in the selection and configuration of the measurement container so that it satisfies your requirements. A typical design of the container includes a separate compartment to provide effective separation between water sampler systems and the analytical components. We also offer the individual design of analyzer modules according to the customer's needs (e. g. Cl₂, Hg, Metals, etc.).

You can also choose from several options for the design of the measurement container, e. g.

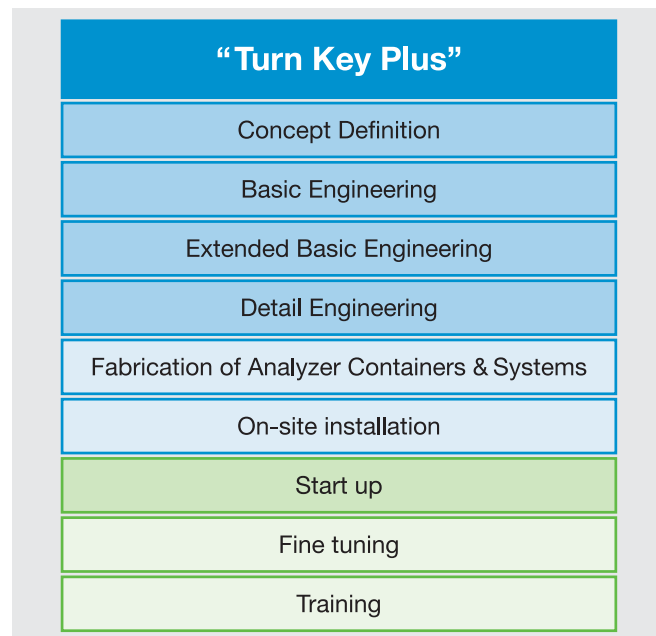
- Container size and model (metal, concrete or fiber glas)
- Separate compartments for analytic components and water sampling units
- Mobile measurement container

The measurement container itself has defined interfaces – so called “electrical” and “chemical plug-in points” – that have been proven in practice over many years.



Our methods

For all your questions regarding waste water measurement solutions we will provide you an expert service. Our extensive experience also ensures that projects will be executed in a professional way. The typical steps in our “turn key plus” service are:



Our “Turn Key Plus” service includes all project phases from concept definition to training of personnel

References

We have designed, installed and managed approximately 10,000 process analyzer systems for production plants within the Bayer Group involving very diverse process engineering. A large percentage of these have been in the field of environmental analysis, i. e. waste water and emission measurement technology.

In addition, as one of our core competences since many years we offer the complete project management typically starting with consulting regarding the selection of analytical instruments followed by concept definition and ending with start-up of the instrumentations and with training of the maintenance personnel.

