



FlexyALR

Meets all your **Automation Requirements**



Your Gain

- Favourably priced
- Simple and intuitive operation, choice of manual and recipe control capabilities
- Allows for integration of existing equipment
- Automatic reports
- Control of up to 6 reactors



SYSTAG
automatically better

The *Flexy*-Concept

Aim

The *Flexy*-Concept aims at applying a consistent operating philosophy throughout the process development process. Only a functionally flexible and highly refined software will cover applications from process research to pilot plant, as the most varied requirements must be met.

The *FlexyALR* is based on the *Flexy*-Concept, the same as *FlexyLab*, *FlexyScaleUp*, Reaction Calorimetry or Thermal Analyses.

The *FlexyALR*

The most outstanding feature of the *FlexyALR* is its modularity down to its individual components. It is primarily suitable to develop systems, which can be built up with capacities from 0.1 l to 100 l.

If it is required to operate a number of reactors with a single PC, the concept will accommodate this, as well as cascading a number of reactors to simulate a complete process flow.

FlexyALR Applications

Applications are most versatile due to its modular design and cover the following areas:

- Process Research
- Process Optimisation
- Scale-up
- Pilot-Plant

Customer Hardware Utilisation

The *FlexyALR* Concept very often allows the use of already existing hardware. This will not only save costs, but will also speed up the automation process.

Functions of *FlexyALR*

Standard ALR System

A typical standard system comprises the following functions:

- Gravimetric dosing facilities
- Temperature control of jacket and reactor
- Stirring
- pH Measurement
- Refluxing
- Crystallisation
- Easy Inertisation
- Accurate data recording

ALR Options

A large number of options are available to expand the basic functions:

- Distillation
- Reflux splitter
- pH Control
- Pressure and vacuum control
- Hydrogenation
- Efficient removal of reactants-purging
- Isothermal heatflow calorimetry
- CFR 21 part 11 for Kilo-labs

Additional ALR instruments for:

- Turbidity measurement
- midIR or NIR measurement
- Incorporation of particle size analyses