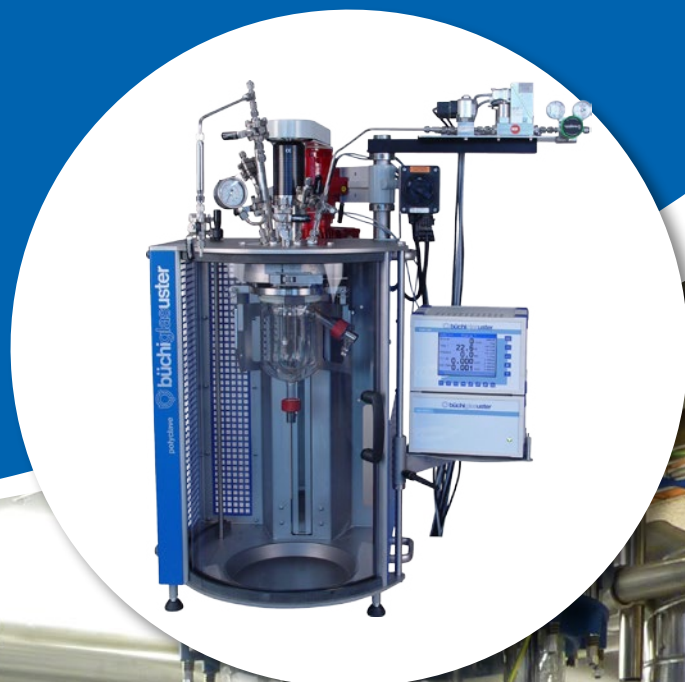


# Measure, Display, Control

## Buchi solutions for chemical Reactors and Plants

- Automation of Lab reactors
- ATEX solutions
- Automation of single process
- Turnkey solutions



## Customized solutions



### polyclave 1 lit. Glass reactor

6 bar/200°C  
2 Massflow controllers for C<sub>2</sub>H<sub>4</sub> and H<sub>2</sub>, bds mc for p, T, rpm, flow rates of ethylene and hydrogen incl. totalizer



### Kiloclave 20 lit. steel reactor

60bar/250°C  
incl. distillation system  
2 Massflow controllers for N<sub>2</sub> and H<sub>2</sub>, bds mc for p, T, pH, rpm, flow rates of nitrogen and hydrogen incl. totalizer



### Pilot Plant 3 x 20 lit. steel reactor

60bar/250°C  
pH control, liquid dosing, ATEX



### 100 lit. chemReactor with PLC system

control of pressure / vacuum, temperature, reflux-splitter, ATEX

### Parallel Pressure Reactor PPR

6 pressure reactors, 100 ml, 100 bar, 250°C  
Fully automated operation, recipe control, dosing, sampling



### Dosing of Gas and liquids

- Integrated(turnkey) solution for dosing of gas and liquid
- single- and multichannel dosing of gas and liquids
- Feed trough MFC/Coriolis/dosing pumps
- Controllable parameters such as:
  - Flow rate
  - Pressure
  - Volume

### PLC based automation Solutions

#### Predefined control functions:

- Pressure /vacuum control
- Inertisation cycles
- Reflux controller
- Stirrer control
- Pump control
- Heating/Cooling unit control
- pH control
- other