

# Test plants for biogas production

## Modular compact basis plant BTP-2 Analyzer



### Application / Features

- Research and Development
- Fermentation yield test
- Optimization of gas production

### Features

- Bioreactor; glass cylinder incl. heating and stirrer
- Feeding funnel
- Measuring technique (pH and temperature)
- Gas quality Analyzer
- Gas meter to measure quantity of gas
- Gas bag to collect gas samples
- SENSOcontrol for display of values and control of the system
- Rack system

#### Bioreactor with measuring technique and stirrer

Dimensions:	Vol. approx. 15 liter; OD: 270 mm, wall thickness: 9 mm, height: 350 mm
Material/ Features	Glass cylinder, large discharge and sampling valve on bottom of bioreactor, feeding funnel
Measuring technique	pH and temperature sensors, other parameters on request
Stirrer:	10 – 500 rpm, max. 600 Ncm
Shaft bushing:	Gas tight with shaft chamber
Heating:	Silicon-heater band incl. t-sensor, height of heater band: 200 mm; max. input power for heating: 500 W, adjustment through T-Controller

#### Gas meter/ Gas bag

Measuring range:	1...60 l/h; resolution: 2,5 ml
Gas bags:	Gas bag 1: Volume 5 liters with three-way-valve for storing a retained sample for gas quality determination Gas bag 2: Volume 5 liters with two-way-valve for balance volume during the sampling process

#### SENSOcontrol

Storage and display unit	pH, temperature and gas amount – incl. graphical and tabular display
Control function:	Asynchronous timing of the agitator

#### Rack system

Dimensions:	50 x 50 x 190 cm + gas analyzer module
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Subject to modification due to technical advance!

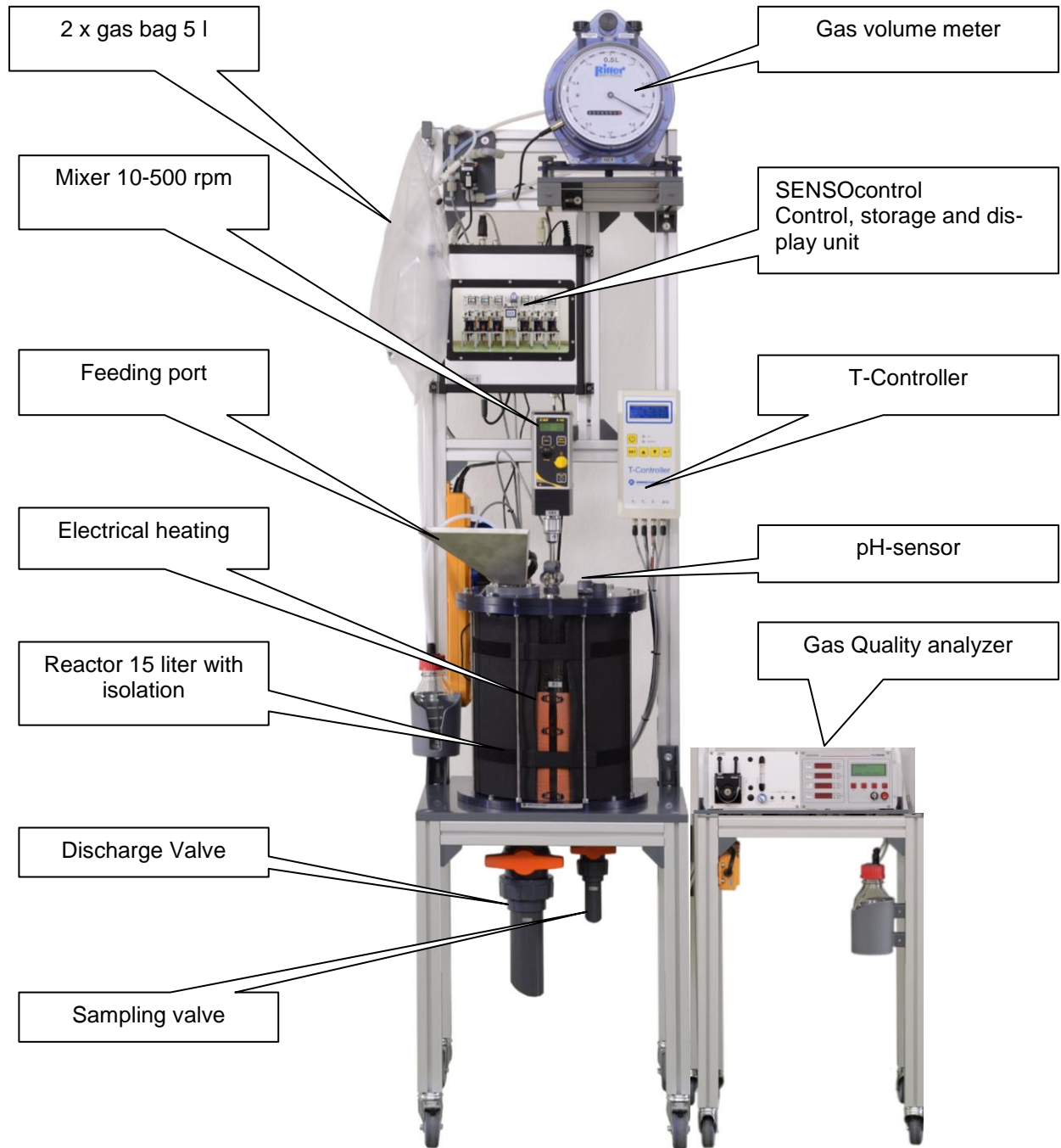


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### Gas quality measurement system

CH <sub>4</sub> :	Range: 0...100 Vol. %; measuring principle: IR
CO <sub>2</sub> :	Range: 0...100 Vol. %; measuring principle: IR
H <sub>2</sub> S:	Range: 0...5000 ppm; principle: electro-chemical - one range
O <sub>2</sub> :	Range: 0...25 Vol. %; principle: electro-chemical measuring cell
Feature:	Gas cooler



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