

## Fiber Zeta Potential Analyzer Online

# FPO

**Innovative online measuring device**  
for the **fully automatic and accurate** determination  
of the Zeta Potential of **fibers** in paper and board machines



### Advantages

- Fully automatic operation: sample-taking • measuring • cleaning
- Integrated switch for two independent sampling points
- Low-maintenance
- High accuracy of measurement and reproducibility
- Data transfer by standard interface to the process control system / optional data storage on Internet server
- Device handling and display of measuring results by touch screen
- Savings in material, time, and energy

→ **ONLINE Measurement of the Zeta Potential of stock suspensions**  
for efficient process control

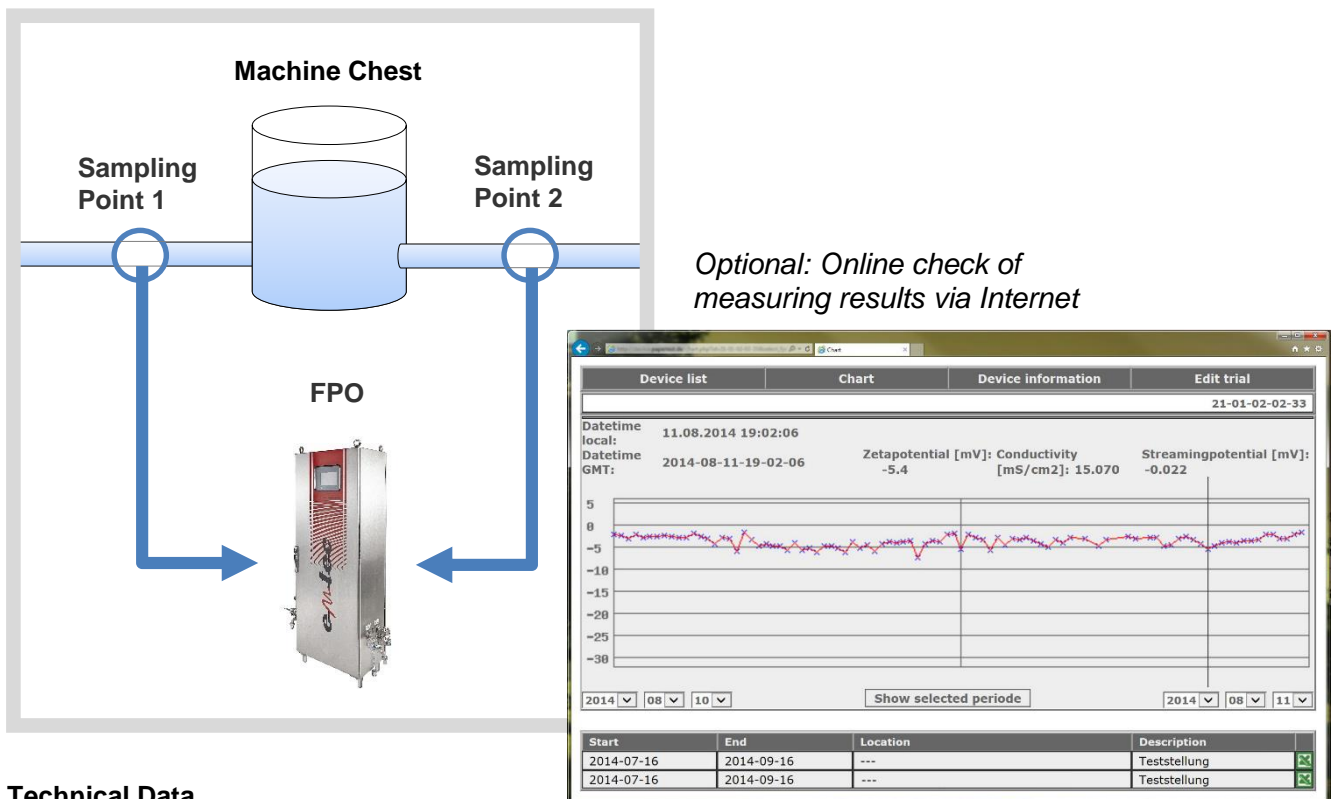
## Features

The Zeta Potential of fibers and fillers was determined until now with the help of laboratory measuring devices (**FPA – Fiber Potential Analyzer** from emtec/AFG). Because of the time difference between the sample-taking and the present measuring data, a reaction to changes in the process is only possible with a time delay. Furthermore, personnel efforts are needed for laboratory measurements, so a permanent process control is practically not possible in this manner.

The new emtec **FPO Fiber Zeta Potential Analyzer Online** uses the established measuring principle of the laboratory measuring device **FPA** and delivers **accurate results fast and reliable**.

By the use of the innovative **FPO** the **immediate intervention into the production process** because of unwanted measuring results is possible. That's why its application leads to obvious savings in material, time and energy.

*Example: Measurement of Zeta Potential before and after the machine chest*



## Technical Data

<b>Accuracy of measurement:</b>	approx. $\pm 5\%$
<b>Storage of measurement data:</b>	for approx. 100.000 measurements (at least 3 years)
<b>Interval of measurement:</b>	adjustable, depending on the automatic cleaning effort, maximum of 6 measurements per hour (3 per channel)
<b>Rinsing water supply:</b>	at least 2 bar
<b>Compressed air:</b>	at least 6 bar
<b>Maintenance interval:</b>	6 months (recommended)
<b>Dimension:</b>	approx. 60 x 175 x 41 cm (width x height x depth)
<b>Weight:</b>	approx. 160 kg
<b>Power supply:</b>	100 - 240 VAC (50/60 Hz)