

Charge Analyzing System

CAS touch!

- *Smaller and lighter than ever before* -
- *Take out, switch on, start measurement* -

Accurate and easy determination of Particle Charge
in the wet end of paper/board production and in any aqueous charge system



Three models available:

CAS-I touch!
One integrated titrator

CAS-II touch!
Two integrated titrators

CAS-E touch!
Connection of external
titrator or hand titration

Advantages:

- **Smaller and significantly lighter** than comparable devices
→ Comfortable transport (carry-on luggage size)
- **Latest state-of-the-art Touch Screen** with display of results and curves
- **External keyboard** connectable (USB or wireless)
- **Ready to use** without assembly of further components
- **Easy handling, clear and simple-to-understand measuring procedures**
- **Compact and robust construction**

Features

The new **CAS touch! Charge Analyzing System** combines proven methods of particle charge measurement with the known great simplicity of handling and functioning of the previous CAS versions, but enhanced with new features and an immense reduction in weight and size.

Basics: Using standard techniques of titration, the **CAS touch!** determines cationic/anionic and acid/base demands of aqueous charge systems. Modern electronic components enable the high accuracy of measurement. Both, Streaming Potential (mV) and pH can be measured simultaneously, making it possible to easily determine isoelectric and flocculation points of a sample and examine the correlation between pH, titrant demand and streaming potential.

Customer's choice: The **CAS touch!** uses integrated **high precision titrators**, optionally **with 1 or 2 titration systems** (CAS-I touch!, CAS-II touch!), while also a version for use with external or hand titration is available to the customer (CAS-E touch!).

Measurement / Result evaluation: The **CAS touch!** can be **operated via Touch Screen**, which displays the data including titration curves, optionally in combination with an **external keyboard**. Moreover, there is no need to adjust to a new software, as the device can also be used with the **common easy-to-handle CAS PC software**. The efficient testing procedures implemented in extremely user-friendly PC software make it very easy to handle. Different titration procedures are available: fixed increment titration, dynamic titration and back-titration are selectable from given procedures or are freely configurable. Default standard titration procedures and customer-specific processes can be stored in the **CAS touch!** via the PC software or Touch Screen. Data can be stored internally as well as externally on an USB flash drive, analyzed with PC software and exported to Excel (only two mouse clicks).

Transport / Assembly: The low weight device can **easily be transported in a carry-on size case**, which is especially important for chemical suppliers for customer visits.

After unpacking the device and connecting it to the mains voltage, the CAS touch! is ready for starting the measurement! There is no complicated assembly and no tubes are needed.

NEW:

- Lighter, Smaller: Carry-on luggage size
- 5" Touch Screen Display for data display including titration curve
- External keyboard and USB flash drive can be connected
- Bottles at device can be mounted with quick release fastener
- No external hoses or tubes
- Magnetic holder for piston storage
- Storage vessel for pH probe at device available

Technical Data

Device weight approx. **3.30 – 4.25 kg** (depending on model)
 Device dimensions 17.0 x 28.5 x 17.0 cm (W x H x D)

Sample requirements

Min Sample Volume 10 ml
 Max Sample Conductivity 11 mS/cm
 Sample with much higher conductivity can be measured by special sample preparation.

Dosing system

Selectable stop-condition pH 0 – 14
 mV -5000 – +5000
 0 – 25 ml anionic / cationic demand
 0 – 25 ml acid / base demand
 Resolution 10 µl

Analytical findings

| | | |
|---------------------|------------------|------------------|
| Streaming potential | resolution: | 1 mV |
| | measuring range: | -5000 – +5000 mV |
| pH | resolution: | 0.01 pH |
| | measuring range: | pH 0 – 14 |
| Demand of titrant | resolution: | 1 µl |
| | accuracy: | < ±1% |