

CAS *touch!*

CHARGE ANALYZING SYSTEM

Fast and reliable determination of particle charge

Take out, Switch on, Start measurement



ADVANTAGES

- smaller and significantly lighter than comparable devices
- comfortable transport (carry-on-luggage size)
- state-of-the-art touch screen (including display of results and curves)
- external keyboard connectable (via USB or wireless)
- ready to use without assembling of any further components
- compact and robust construction



USERS

- chemical suppliers
- pulp producers
- paper / board producers
- universities and institutes
- water treatment plants



Measurement of the particle charge in the wet end of the paper and board production as well as in any aqueous charge system. The new CAS *touch!* Charge Analyzing System combines a great simplicity of handling and functioning with the proven methods of particle charge measurement with new features and an immense reduction in weight and size.

BASIC

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 measurements. Streaming potential (mV) and pH value can be measured simultaneously, making it possible to easily determine isoelectric and flocculation points of a sample and examine the correlation between the pH value, the demand of titrant and the streaming potential of a measuring sample.

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 without integrated titration system is available for use with external or hand titration: CAS-E *touch!*

MEASUREMENT / RESULT EVALUATION

The CAS *touch!* can be used via touch screen, which displays the data including titration curves, optionally in combination with an external keyboard. Moreover, the device can also be used via PC with the easy-to-handle CAS PC software, equipped with additional features.

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.

APPLICATION AREAS

r&d
process control & optimization
product optimization
troubleshooting
complaint management
waste water treatment

TECHNICAL DATA

device dimensions	28.5 x 17 x 17 cm (H x W x D)
device weight	approx. 3.30 - 4.25 kg (depending on model)

ANALYTICAL FINDINGS

parameter	measuring range	resolution
streaming potential	-5000 to +5000 mV	1 mV
pH value	0 to 14 pH	0.01 pH
demand of titrant	0 to 20 ml	1 µl

PARAMETERS WITH SELECTABLE STOPPING FUNCTION

streaming potential, pH value, demand of titrant, time
(manual ending of the measurement possible)

SAMPLE REQUIREMENTS

min sample volume 10 ml
max sample conductivity 11 mS/cm
(samples with much higher conductivity can be measured by special sample preparation)

SOFTWARE

AFG Measurement System



AFG Analytic GmbH
Gorkistraße 31
04347 Leipzig
Germany



+49 341 24570 99
+49 341 24570 90
info@afg-analytic.de
www.afg-analytic.de

represented by
emtec Electronic

