LAB CHARGE ANALYZER - WET END
LCA-1P / LCA-2P / LCA-3P

DESCRIPTION

The Lab Charge Analyzer (LCA) is an essential tool for papermaking allowing fast determination of wet end charge demand. The LCA measures the streaming current produced by colloidal / dissolved species in a sample taken from various points on the wet end of the papermaking process, and allows for a titration with a poly-electrolyte titrant to bring the sample's charge to zero. The charge demand result is then expressed as either microequivalents per liter (µeq/L) or parts per million (ppm). The LCA is available in three models. The LCA-1P has no automatic titration features and therefor requires titrations to be performed manually. The LCA-2P has one titrant pump and the LCA-3P is equipped with two titrant pumps allowing for automatic switching between cationic or anionic titrants depending on the sample's charge. Chemtrac's Lab Charge Analyzer comes backed with over 30 years of charge analysis expertise and world class customer support.

STANDARD FEATURES

All Models (LCA-1P, LCA-2P, LCA-3P)

- Accommodates samples from 10 to 40 mL
- Simple to remove probe and piston
- Includes 300 micron strainer, 400 mL beaker, 30 mL syringe

LCA-2P

- Built-in titrator, single titrant pump
- Cationic or Anionic titration

LCA-3P

- Built-in titrator, two titrant pumps
- Cationic and Anionic titration

OPTIONAL FEATURES

- Rollaway case for transporting unit

BENEFITS

- Quickly determine charge demand of a sample
- Allows for trending of wet end charge to aid in optimization of additives

Streaming Current

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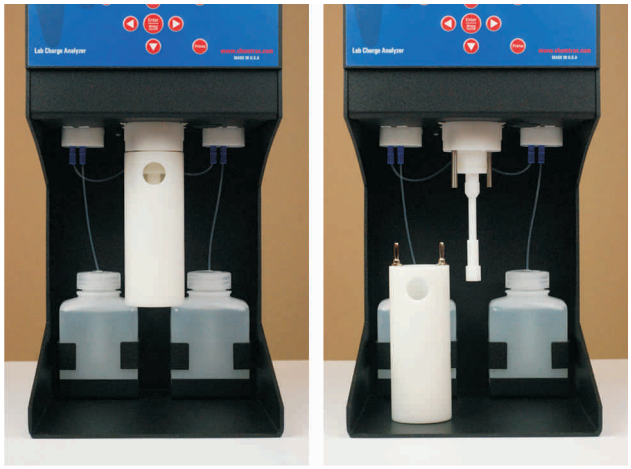
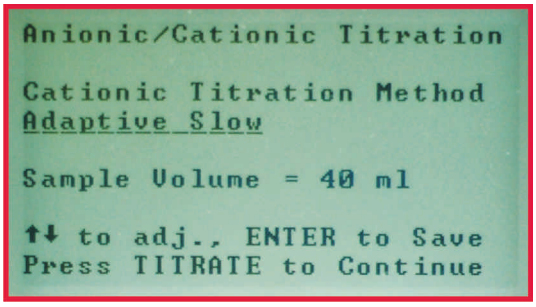
GENERAL SPECIFICATIONS

Display:	LCD, Monochrome with backlight
Materials Contacting Sample:	Delrin, stainless steel (teflon with titanium optional)
Sample Volume:	10 mL - 40 mL
Power Requirements:	110 VAC 60 hz, 1A 220 VAC 50 hz, 2A (optional)
Operating Temperature:	34° - 120° F (0° - 50° C)
Dimensions:	8” W x 17.5” H x 8.8” D (203 mm W x 444 mm H x 222 mm D)
Weight:	16 lbs (7.3 kg)

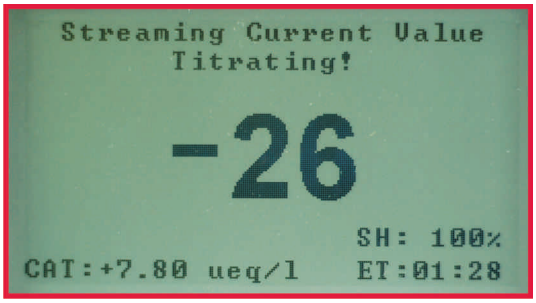
Adding Sample to the Charge Measurement Cell



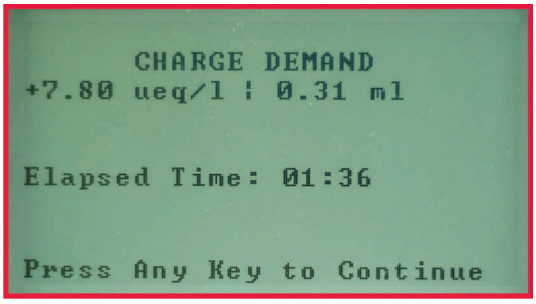
Probe is easily removed for cleaning between titrations



Titration Method & Sample Volume Selection



Display during Titration



Titration End Results

Sample Strainer and Beaker