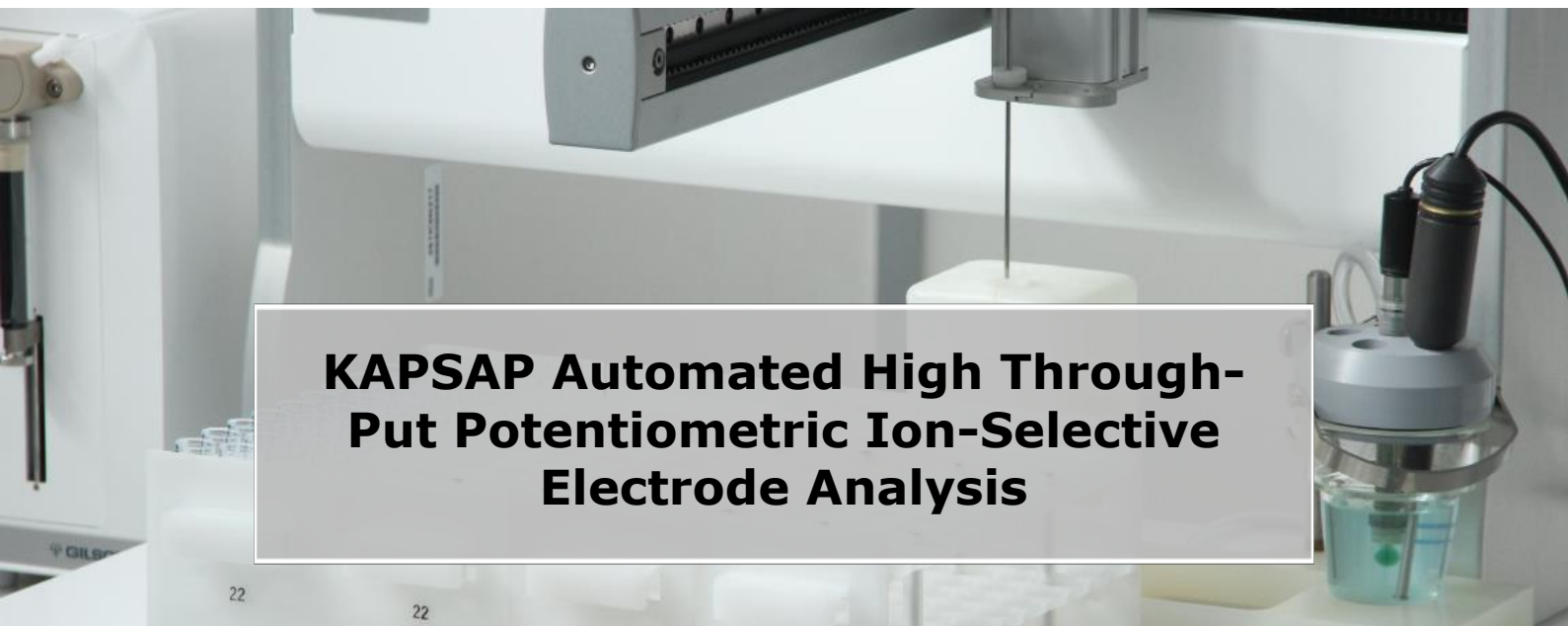


Automation/ KAPSAP



KAPSAP Automated High Through-Put Potentiometric Ion-Selective Electrode Analysis

KAPSAP

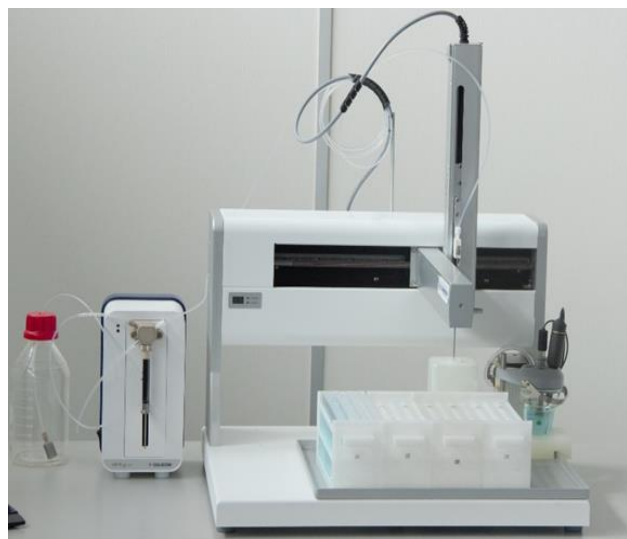
KAPSAP (Known Addition Potentiometry, Sample Addition Potentiometry) is a fully automated workstation which offers a unique extension of "Known Addition Potentiometry" to determine a range of analytes, using the technique of standard addition.

KAPSAP employs unique manipulations of standard solutions, samples and base solutions containing potentiometric sensors that can allow the fully automated Ion analysis of up to 400 samples.

Analysis of previously troublesome sample types is now possible. KAPSAP requires only a small volume of sample, which is then added to a relatively large volume of base solution. This eliminates the problems associated with difficult samples, which previously could not be analysed by the standard procedures due to the presence of interfering ions or excess acidity / alkalinity

During the analysis sequence, KAPSAP determines the concentration of analyte in the base solution, which is adjusted to ensure that: The sensing electrode operates in its linear range, the results are acceptable and the overall analysis time (speed of response) is acceptable

Since the sensor is maintained in a constant ionic strength environment, and is not transported around the samples, its performance is greatly improved and its life extended



- ✓ **Fully automates the analysis of up to 400 samples**
- ✓ **Small sample size: 1 to 2 ml**
- ✓ **Small foot print**
- ✓ **The system automatically and accurately pipettes the sample. No need for manual time-consuming decanting of the sample**
- ✓ **Reagent savings; Fluoride analysis uses 1/10 the amount of TISAB compared to conventional techniques**
- ✓ **KAPSAP's procedures automatically corrects for any potential carry-over from one analysis to the next, eliminating the need to "washout" between samples.**

APPLICATIONS



Environment

CN, F, S, Cl, NO₃, CO₃ etc., in effluents and natural waters



Agriculture

NO₃, Cl, NH₄, K, Na, Ca, I CN in soils, plant material, fertilisers and feedstuffs



Others

Free acid in industrial processes

Control of industrial waste water

Any process with determinants including acidity, alkalinity, Br, CN, NCO, F, Cl, I, NO₃, I, K, Na and HS

The Kapsap can also be upgraded later to simultaneously measure pH and/or Electrical Conductivity

TECHNICAL SPECIFICATIONS

Type of measurement	Known Addition Potentiometry, Sample Addition Potentiometry (KAPSAP) with ion selective electrode	Capacity	350 x 10ml disposable tubes for model AQ215 280 x 10ml disposable tubes for model AQ271
Typical Measurement time	< 5 minutes	Typical sample types	Potable waters, waste waters, process waters etc.
Typical specifications (fluoride)	0.005 to <100ppm of fluoride using 2.5ml of sample. Lower LODs can be achieved using more sample	Sample volume	< 3 ml
Footprint	AQ215 - 91.4 (w) x 61 (d) x 55.8 (h) cm AQ271 - 59.7 (w) x 54.1 (d) x 57.1 (h) cm	Sample pre-treatment	The system aspirates an accurate volume of sample to reduce sample handling times.
PC Software	TitreFast Lite Common Windows 7 64 bit interface or higher Easy LIMS import of sample schedules and export via LIMS for reporting MS Excel Reporting	PC specification	Pentium 4 with 1GHz or better, >1 GB RAM, 200GB hard disc one free RS232 port Windows 7 Prof 64 bit, 1024x768 or high resolution monitor Requires Microsoft Excel or Office installed.
Calibration	Not required	Optional tube racks	With over 200 standard sample racks available - virtually any tube size can be accommodated. Custom made racks are also available



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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

