

your partner in chemistry automation



The San⁺⁺ Automatic Tobacco Analyzer



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QUALITY ASSURED: To maintain the high standards, which are expected by the consumers, quality control laboratories test the raw materials to insure the quality of the finished product. The analytical results are achieved by standardized testing methods. The well proven Skalar automated tobacco analyzer has been in use for many years in the tobacco industry, and is designed to comply with standard methodologies such as Coresta. The automated analysis achieves better response times, less operator intervention and an increased accuracy in the results.

TIME EFFICIENT: In laboratories today short analysis times are essential, that is why all Skalar instrumentation not only automates routine methods, but wherever possible reduces the actual analysis times involved. This enables operators to increase throughput and thus increase the overall capacity of the laboratory. Short response times to detect changes in production are important to ensure minimal waste is produced.

COST EFFECTIVE: The Skalar San⁺⁺ tobacco Analyzer has proven to be a robust workhorse for tobacco laboratories. The low operational costs simplify the choice to automate applications, bearing in mind an increase in speed and reliability. In addition, less waste per sample analyses is produced compared to the traditional manual method.

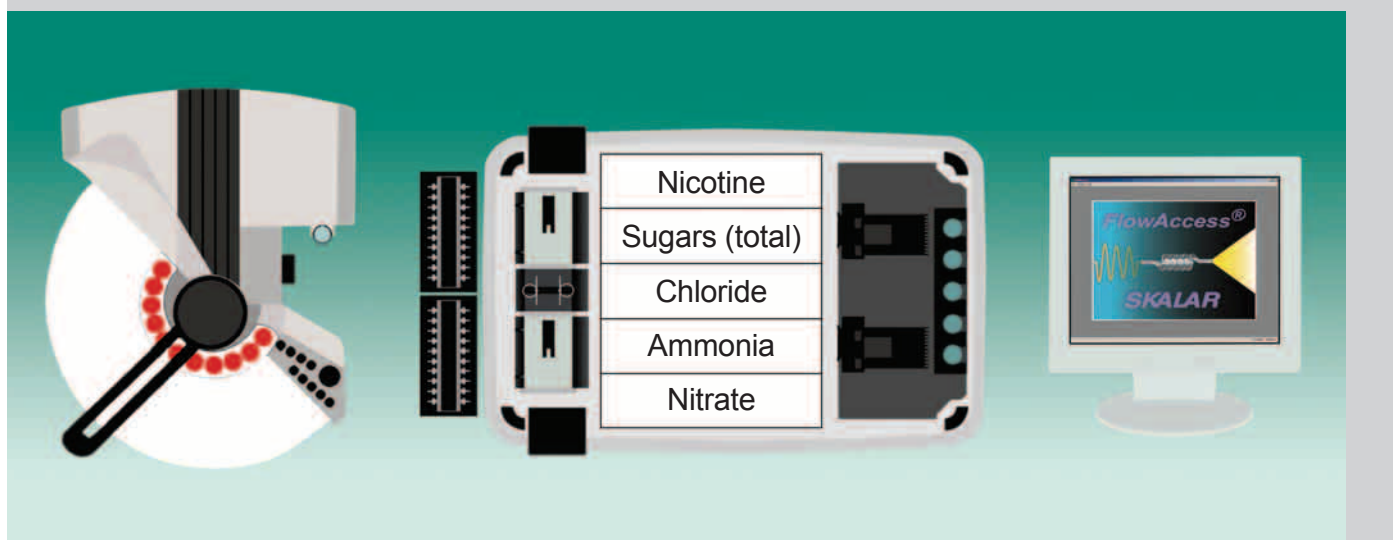
ACCURATE RESULTS: The ability of Skalar's instrumentation to give accurate results time after time is what most laboratories regard as the deciding factor before purchasing a system. Over a period of years, Skalar has worked with tobacco laboratories to achieve proven, rapid, accurate and reliable results. The versatile software allows the data produced to be easily incorporated into spreadsheets or sent directly into a LIMS. Skalar's well proven analytical methods are based on international standards as specified by International Standard Organisation (ISO), Coresta, etc..

Tobacco Applications:

Acetaldehyde • Alkaloids (total) • Amino nitrogen (free) • Ammonia • Chloride
Citric acid Cyanide • Glucose / Fructose / Saccharose • (L) Malic acid
Niacin • Niacinamide • Nicotinamide • Nicotine • Nitrate + Nitrite
Nitrogen • Phosphate • Sugars • Volatile base



Typical Tobacco Analyses



The Skalar San⁺⁺ Tobacco Analyzer is a modular system that can be configured to meet your requirements. Each analytical manifold is configured for a specific parameter and complies with national and international guidelines. A total of 16 parameters can be analyzed simultaneously. A typical five channel San⁺⁺ Tobacco analyzer, as can be seen above, can hold manifolds for Nicotine, Sugars (total), Chloride, Ammonia and Nitrate. The Automated Tobacco Analyzer has been designed as an expandable system to meet the needs of laboratories which process either small, medium or very large sample numbers.

There are many possibilities and combinations for the Skalar San⁺⁺ analyzers and all applications can be customized to meet the individual requirements of the laboratory for which it is intended. Furthermore, the analyzers are designed as easily expandable systems to facilitate additional parameters in the future.

Skalar's auto-samplers range from a 50 position sampler up to a 540 position sampler with the possibility of an integrated diluter. Multiple sample needle configurations are available when different sample matrices or sample preparation procedures are being applied. Automatic start-up, shutdown and stand-by are just some of the features that can be easily incorporated. Fully flexible rinse procedures are also integrated to minimize operator intervention and to allow the system to run completely independently.

Skalar has become a world leader in chemistry automation due to its dedication to working to customer requirements and the versatility of its range of instrumentation. In addition the ease of operation, the decrease in operator time and its robust design have made the Skalar San⁺⁺ Tobacco analyzer the standard for many international tobacco manufacturers.

Features

- Methods according ISO, Coresta, AOAC and others
- In-line dialysis for sample blank correction
- Skalar FlowAccess™ software with real time graphics, data calculation and data export to Excel / LIMS
- Unattended automatic start-up and shutdown
- Multiple pump speed (normal, high, and stand-by mode)
- Analysis from a 1 up to 16 parameters simultaneously
- Automatic preparation of working Standards
- Various types of auto samplers with 50 up to 540 sample positions





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