



STEINFURTH CPA CONCEPT Compact Package Analyzer



Integrated monitoring of beverage and package quality

Carbon dioxide, opening torque, brix and fill level are parameters that significantly affect the product quality of beverages recognized by the consumer. A continuous monitoring of these is therefore essential to ensure a constant and repeatable quality of bottled products. The Steinfurth Compact Package Analyzer (CPA) as a Mini-Lab concept optimizes dramatically the workflow in the modern quality control (replacing or extending the so far mostly decentralized and inefficient monitoring of these parameters).

The heart of the Steinfurth CPA concept is the "Master", an instrument which acts as the control center for all other devices linked with it ("Slaves"). The "Slaves" which can also be existing devices from other manufacturers need as their only requirement a serial data interface.

Global sample and procedure adjustments for the complete Mini-Lab can be executed via the control panel of the CPA Master module. This can be done automatically via barcode scanner, or manually via the integrated touch screen. Subsequently the measurement results of all linked devices are collected and stored on the hard drive of the Master. A central transfer of the measurement data is enabled at any time (via Ethernet interface directly into a PC network).

The CPA concept develops its maximal benefits with outsourcing of the quality control test operations to the production line. Especially Steinfurth instruments integrated to the at the line operated Mini-Lab convince with their robust construction and automatic, extremely easy and user independent operation.

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Steinfurth „Master“ & „Slave“ Modules integrated to the CPA concept



Steinfurth® CDA-MK6/CO2MS-3V the globally established carbon dioxide measuring systems combine optimal sample preparation, measurement and result analysis in single All-in-One instrument. By consideration of all packaging influences on the beverage quality the system delivers very precise results in shortest possible time. Via serial interface any automatic Steinfurth CO₂ tester can be simply integrated to the CPA as a "Slave".

The automatic torque tester **Steinfurth® TMS 4000/4010** is designed to analyze the opening performances of all kinds of screw-caps. The TMS 4000/4010 also measures automatically the for the 1881 closures important closing angle. With its very easy, intuitive operation via touchscreen or barcode scanner every measurement is user independent and executable directly at the production line.

Every TMS 4000 / 4010 is delivered ex-works with complementary Master functionality on board).

For Brix measurement Steinfurth recommends the Maselli LR02 refractometer. The sapphire prism, durable LED-light source, high resolution CCD-Sensor and easiest operation guarantee high accurate and user independent measurement results. The Maselli LR02 as well as other types of measurement instruments with data interface (for example Maselli DR-10 and brix meter from other manufacturers) are easy adaptable to the Steinfurth CPA concept.

Steinfurth® FLB 3400 completes as precise lab scale the range of instruments integrated to the CPA. It measures the fill level by taking tara weight and density into account. The unique inductive load sensor is overload protected and robust enough to be used directly at the production line. Of course, also scales other manufacturers can be easy integrated to the CPA concept.

Benefits

- Customer specific instrument combination (new and existing devices adaptable)
- Automatic sample specific program and tolerance adjustment (via barcode scanner)
- User independent, automatic functionality and flexible configuration of all linked instruments
- Integrated optimal sample preparation
- Designed for operation directly at the production line
- Maximal reduction of process times
- Combined and centralized monitoring of beverage and packaging quality
- Easiest operation via color touch screen
- Data transfer via integrated FTP-Server; CAN-bus, or serial interface (RS 232)
- Robust construction and integration in customized QA software setup
- Operation by line personnel (no lab skills required)