

Steinfurth CPA - 3 (Compact Package Analyzer)

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… modular quality control system for the lab and the filling line

CO2 concentration, opening torque and fill level are the quality parameters that have to be checked on a regular base. The Steinfurth CPA system consists of three rugged measuring devices, designed for use in the lab or directly at the filling line.

The CO2 concentration measuring system CO2MS shakes the sample to achieve phase equilibrium, and CO2 concentration is calculated from pressure and temperature according to the laws of Henry and Dalton.

The torque measuring device TMS 4000 features measuring the tamper evidence band tear-off torque as well as measuring just the opening torque, but without CO2 loss. It includes user-parameterisable testing programs.

The precision balance FLB 3400 is used for measuring the fill level, taking tare weight and density into account.

By means of a bar code reader, the CPA automatically selects the appropriate spec limits, measuring programs, CO2 calculation formulas and tare weights. Furthermore, the measuring results are automatically assigned to a particular product.

The CPA is operated over a few keys and the rugged colour touch screen of the CPA master terminal. The CPA master terminal can be built into each of the measuring devices. Coded background colours allow intuitional operation.

The terminal must be present only once in a CPA system.

Operation

The CO2 concentration measuring system uses the manometric method according to the laws of Henry and Dalton: By shaking the sample, equilibrium is achieved, and CO2 concentration can be calculated from pressure and temperature inside the sample container.

Torque is measured by a high quality torque sensor in the base of the device. Due to the precise drive motor control and an elastic drive train, defined torque gradients are possible.

The balance is very accurate and is designed for masses up to 4.2 kg / 9.25 lb.

A colour touch screen terminal allows intuitional operation. Coded background colours provide a quick and secure way of recognition whether a result is within or without specification limits.