

## Compact package analyser modular quality control system for the lab and the filling line.

CO<sub>2</sub> 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 immediately at the filling line.

### Functional description

The CO<sub>2</sub> concentration measuring system CO<sub>2</sub>MS shakes the sample to achieve phase equilibrium, and CO<sub>2</sub> 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 CO<sub>2</sub> 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, calculation formulae 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 once in a CPA system.

### Technical specifications

#### Container type

Bottles and cans

#### Data output

Colour LCD, Ethernet (RS 232, RS 485, CAN on request)

#### Supply voltage

230 VAC / 115 VAC

#### Measuring range CO<sub>2</sub>

10 g/l (5 vol)

#### Torque range

+/- 50 in-lbs

#### Mass range

0...3400 g / 7 lb



### Benefits

- Cost saving - outsourcing of the lab work to the filling line
- Customer-specific combination of devices
- Automatic program and spec limit selection by means of a bar code reader
- User-independent automatic operation
- Integrated sample preparation (CO<sub>2</sub>)
- User-parameterisable torque measuring programs
- Automatic fill-level calculation
- Designed for use directly at the filling line
- Simple operation with colour touch screen
- LAN integration (Data output via RS 232, RS 485 or CAN bus on request)
- Built-in FTP server for measurement data spreadsheets
- Humidity protection rating: IP 54