

ManDos

Computer-assisted manual dosing station

manual weighing

operator-guided

computer based

extremely flexible

documented

Complete documentation of mini amounts

An operator-controlled manual weighing centre is useful for mini amounts of ingredients such as dyes, additives, flavours etc. whose automated handling does not pay off due to difficult physical characteristics or low volume and infrequent use. However, especially these mini amounts of ingredients decisively influence the formulation and therefore must not be transferred to the production process without monitoring and documentation.

ManDos is applicable in many ranges of the industry, among other things in the food, chemistry and pharmaceuticals. Also in ex environments the functionalities of ManDos can be used problem free.

THE INNOVATION



ManDos offers a set of advantages:

- flexibly applicable
- flexibly to specific customer requirements
- applicable as a simple standalone-manual weighing station
- applicable within a production control system
- raw material identification in connection with bar code scanners
- strict user guidance for the avoidance of weighing errors
- has independent master data management
 - order management
 - recipe management
 - storage place management
 - article management etc.
- documents all operating steps and weighing results
- provides calibration data
- fulfills all demands of the

European Union regulation 178/2002

- labels the goal bundles for following subsequent treatment
- offers most diverse kinds of cradle e.g. batch and series weighing, absolute weighing or weighing against zero etc.
- connection of up to three scales is possible

AZO.®

With the employment as simple standalone-manual weighing station ManDos has its own master data management, which is correct expression the defaults of the S88-guidelines. Likewise ManDos can be tied up to the transfer of recipe and order data to a supervisory customer system (e.g. frame SAP/R3).

Further features of ManDos are:

- recording of raw materials, supply, storage, stock removal, identification (by reading, writing, by barcode (39, 128, EAN), RFID)
- filling (exchangeable bags, identification/labelling with barcode (39, 128, EAN))
- unlimited number of ingredients
- ease of operation by optional program continuation by foot switch
- also subsets can be weighed, possibility to postpone ingredients
- calculation of active agents, water content, weighing factors
- handling of the scale tolerances after choice according to order recipe default, ingredient default or scale parameter / weighing ranges
- yield regulation



Manuel weighing station ManDos

Complete documentation

- batch record, production protocol, consumption balances, output, etc.
- forgery-safe PDF-protocols
- long-term archive

AZO.

19.10.2012
 13:56:45

CONROLS
ManDos

Scale **Scale 3**
 Range **6kg**
 Gross weight **4,610kg**

4,610 kg

Scale 3
4,610 kg

Scale 4
0,000 kg

Scale 5
0,000 kg

Ingredient
0001 / Ingredient 1

Setweight
4,750kg
(4,550kg .. 4,950kg)

Order **Test003**
 Batch **6**
 Recipe **0002**
 Recipe Name **Recipe 1**

TareWeight **0**
 LotId

Weigh and acknowledge...

↑

?

⚖️

📄

✔️

Access control, system security and validation

- Authentication, access control
- Audit Trail (login/logout, data modifications, user interference) according to GAMP
- additional demands according to FDA 21 CFR Part 11
- Traceability of batches according to European Union regulation 178/2002
- Validation documents acc. to GAMP
- Support of scale calibrations by freely definable calibration recipes, calibration intervals can be defined



AZO GmbH + Co. KG
 D-74706 Osterburken
 Tel. +49 6291 92 0
 azo-group@azo.com
 www.azo.com