Is cutting edge metering a top priority?

A close look at the features of this flexible software package for precision industrial metering will show your needs can be met. It is intelligent enough to learn for itself in tailoring the ID7 terminal's already considerable capabilities to your requirements. As a stand-alone solution, or incorporated in a system, it allows you to simply 'plug and fill'.

DOS

A
Article No.

B
Order No.

C
Ident C

D
Ident D

METTLER TOLEDO

Target weight achieved quickly and accurately.

Accurate ID7-Dos²⁰⁰⁰ teaches, itself for safe and reliable industrial metering

Fully or semi-automatic charging

☐ Robust, sealed housing provides IP68/IPX 9K

☐ BIG WEIGHT® display easily read from a distance

☐ Smooth membrane keypad for long life and ease of cleaning

☐ Compatible with 3 different scales for extremely accurate metering

☐ Codes A to D for clear identification of the formula data

☐ Interfaces facilitate connection of peripheral systems

So many good reasons for deciding on ID7-Dos²⁰⁰⁰
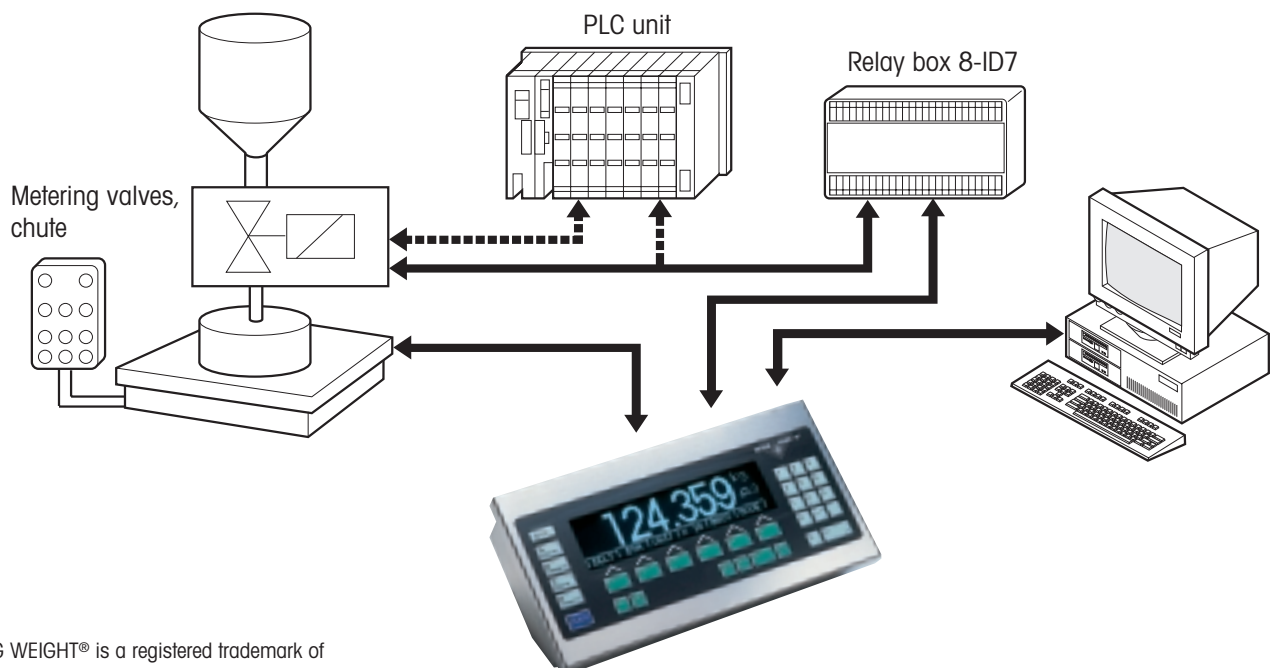
■ Quick and accurate dispensing

The combination of fast data transmission, adaptable filters for tough conditions and separate weighing and evaluation allows you to meter your formulae very quickly without sacrificing accuracy!

■ Learn mode

Just specify the target weight. The points at which the constituents are switched off are then determined automatically by the ID7-Dos²⁰⁰⁰. Getting the formula exactly right from the start avoids wasting time and materials.

■ Fully automatic dispensing

Upgrade from manual operation to the fully automatic metering system with ID7-Dos²⁰⁰⁰. Just connect coarse and fine feed valves to the two relay boxes and you're in business. Or activate the blow level nozzle control to avoid the need for the additional PLC for this technique.

PLC unit

Relay box 8-ID7

Metering valves, chute

BIG WEIGHT® is a registered trademark of Mettler-Toledo (Albstadt, Germany) GmbH.

"Bag in box" below level filling

ID7 means correct metering from the outset, without the labour and materials costs of extensive trials. It is equally effective for filling barrels or dispensing bulk goods.

■ Safe filling

The ID7-Dos[2000] continuously monitors material flow by means of dosing checks since the 8-ID7 relay box closes all outlets automatically within milliseconds if it is ever cut off from the ID7. A multiplicity of other functions such as refill correction, correction threshold, acknowledgement, etc. ensure that a ID7-Dos[2000] monitored metering system is safe and reliable.

■ Metering customization

Switchable functions such as scale changeover, residue and filling process control, material levelling or manual correction cover your special requirements.

■ User-friendly

The clearly laid out, ergonomically designed keypad together with a display which is easily read under tough conditions, help you save time and avoid complaints. You can choose between weight, status or DeltaTrac display.

■ Data printout

Print the data on control slips, labels, forms or cards using a strip or form printer. Clear text or barcodes for fast, accurate processing are also possible.

■ Recording and processing data

Optional interfaces can be fitted to integrate the ID7-Dos[2000] into your client-server architecture. Full remote operation is possible if required.

■ Extremely simple materials handling

Weighing platforms come in an extremely wide variety of types and sizes, with different measuring ranges. Mountings for roller tracks and conveyor systems ensure ease of incorporation in the production line.

■ Consistently reliable

The robust scales have generous overload protection. And the terminals can be replaced quickly in case of incident without upsetting calibration. Stainless steel industrial housings provide IP68 and IPX 9K protection.

```
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
CONPHARM Co.Limited
      - Hampshire -
-------------------------------------------
DATE                              09.05.00
TIME                              18.20.45
-------------------------------------------
Article No.
                              756RT 34/K
Order No.
                              Z 31 988.55
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

TARGET                            20.000 kg
LIMIT1                            17.450 kg
LIMIT2                            19.748 kg
TOLERANCE                          0.160 kg


Actual v.                         20.026 kg
Tgt - Actual                       0.026 kg
Items                                     1


Actual v.                         20.037 kg
Tgt - Actual                       0.037 kg
Items                                     2


Actual v.                         20.023 kg
Tgt - Actual                       0.023 kg
Items                                     3


xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
DATE                              09.05.00
TIME                              18.21.29
Code No.
                              405241307891
Document No.
                              DN 498288
-------------------------------------------
Mean Value                        20.0287 kg
Std Dev.                           0.0074 kg
x min                             20.023 kg
x max                             20.037 kg
-------------------------------------------
*Gross          60.713 kg
*Net            60.086 kg
Items                  3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

4 052413 078912

Typical printout shown actual size.

Technical Data for ID7-Dos^{2000} Application Software

Function keys

N	Enter item counter
TOTAL	Output/print total and statistics
MANUAL	Manual re-metering
LIMIT	Enter and print metering parameters
STOP	Interrupt or discontinue metering
START	Start or continue metering

Dos^{2000} functions

Dispensing	Automatic filling with target weight of single constituent. Coarse and fine feeding of liquid, viscous or loose materials. Tolerance checking with automatic re-metering and control of the point at which the fine feeding is switched off.
Application	Controlled above level filling, below level filling or below bung hole filling, switchable nozzle and drip tray control by means of a second 8-type relay box. Metering nozzle contact detector.
Metering parameters	Entering of item name, target value, limits 0,1 & 2 and permissible tolerance and tare ranges on the keypad in response to prompts, or retrieval from the 999 fixed value memories, or via serial interface or via network. Access to manual input, changing or retrieving metering parameters can be protected by a password.
Dispensing display	Clear text metering status display with status number; can be toggled between DeltaTrac analog weighing-in guide and BIG WEIGHT display with 35 mm high digits or clear text.
Tare function	Automatic taring at the start of metering of the first constituent. Monitoring of container within defined tare range.
Learn mode	Automatic determination and optimisation of points at which valves switched off. Automatic determination of the weighing tolerances in accordance with national calibration regulations.
Refill correction	Optimises the point at which fine feeding is switched off (limit 2).
Re-dispensing	Manual or automatic pulsed metering.
Remote operation	ID7-Dos can be partially or fully remote controlled and monitored via serial interface or via network.
Operating mode	Manual or automatic metering (E09/E010)
Memory for characteristic data	For entering up to four items of job-related data (20 alphanumeric characters).

Auxiliary functions

Totalisation	Totalling (net) of all good/ interrupted metering operations. Gross weight, item counter, standard deviation and mean, minimum and maximum value can be output to the GA46 printer or retrieved via the data interface.
Item counter	Start and end value of up to 9999 can be preset for automatic metering of a batch of a certain size.
Pac start key, access protection	Interlocking of various keys prevents illegal operating steps
Manual correction	Facility for bringing incorrectly metered individual constituents to target weight manually.
Material levelling	Switches a device for levelling or mixing the material dispensed. Can be controlled on weight and/or time basis.
Residue	Switches discharge device and residue control.
Filling process	Controls a top-up hopper when metering out.
Weighing platform changeover	Changes over from one weighing platform to the another automatically or manually.
3rd switching point	For rapid pre-filling before coarse and fine feeding.
Metering monitoring	If the rate of mass flow falls below a preset minimum value or a preset maximum mass flow rate is exceeded, dispensing is interrupted.
Acknowledgement	Acknowledgement of the next metering operation can be switched off (e.g. for pallet filling).
Coarse and fine	Option of using coarse feed signal to also control fine feed valve.
I/O test	Setting/resetting of the outputs and displaying of the inputs for quick function test.
Start timer, end timer	Universal timer functions before/after dispensing of each constituent with control of a digital output.
Pre-dispensing	For reducing coarse feed opening pressure with fine feed depending on time.
Print cycle	For cases in which the metering results do not have to be printed out after every filling operation.
Single-flow mode	Single-stage filling with fine feed below a variable weight limit.
Output 7	Sets output 7 as a function of up to 30 programmable metering statuses.
FreeWeigh mode	Connection to FreeWeigh SQC system possible. Linking to a FreeWeigh SQC system is possible (via ID10/SQC).
Analogue output	Output of the pre-/course-/fine stream throughput to an analogue output is permitted; this under application of proportional valves, optimal dosing velocity for each dosing parameter set or target value respectively.

General functions

Info functions	Simple retrieval of tare, actual and stored dispensing parameters, net total, item counter and characteristic data A to D. (Not, however, during an ongoing dosing process.)
Control signals	Via two 4-I/O-ID7 interfaces and 4-ID7 relay box or one RS485-ID7 and 8-ID7 relay box (accessories). Second 8-ID7 relay box is needed if metering nozzle/drip tray control or start/end timer signal required.