

Has the time come for you to weigh formulae automatically?



Would you like even more efficiency in your production? To achieve that, it is not even mandatory to consider the complex multi-component dosing unit. The ID7-Dos-R²⁰⁰⁰ is simpler: It represents a compact solution permitting up to 50 recipes with up to 32 components each. Quickly installed and user-friendly, it has a learn mode and offers fast precision dispensing with the flexibility to accommodate your changing needs.

The right formula every time.

Accurate automation with ID7-Dos-R²⁰⁰⁰ ensures reproducibility

- Robust, sealed housing provides IP68/IPX 9K protection
- BIG WEIGHT® display easily read even from a distance
- Smooth membrane keypad for long life and ease of cleaning
- 3 different scales can be connected for extremely accurate dispensing
- Code A to D for clear identification of the formula data
- Interfaces facilitate connection of peripheral systems



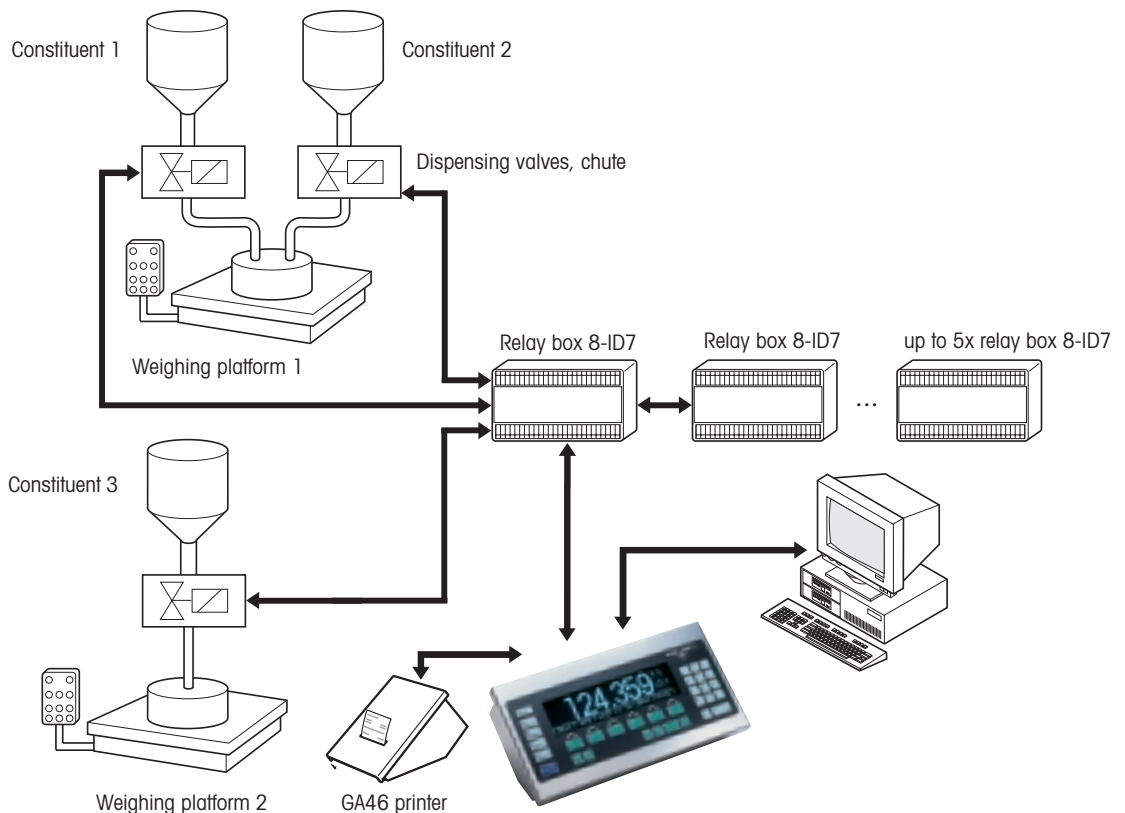
Benefits of ID7-Dos-R²⁰⁰⁰

■ Fast and accurate formula processing

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

■ Learn mode

All you still have to do is enter the constituent weight proportions and batch weight. The cut-off points for each constituent are then determined automatically by the ID7-Dos-R. Getting the formula just right, first time avoids, wasting time and materials.



Instant accuracy with ID7-Dos-R avoids the labour and cost of materials trials.



■ Fully automatic formula weighing

Upgrade from manual to fully automatic weighing with ID7-Dos-R²⁰⁰⁰. Just connect coarse and fine feed valves for the individual constituents to the two relay boxes and you're in business.

■ Safety

The ID7-Dos²⁰⁰⁰ continuously monitors material flow by means of dosing checks, since the 8-ID7 relay box automatically closes all outlets itself within milliseconds if ever cut off from the ID7. A multiplicity of other functions such as refill correction, correction threshold, etc., ensure that an ID7-Dos-R²⁰⁰⁰ monitored dispensing system is safe and reliable.

■ Customisation

These optionally added functions might cover your special requirements: multi-scale operation, display messages, remnant and filling checks, material equalization or manual corrections, etc.

■ User-friendly

The clearly laid out, ergonomically designed keypad together with an extra-large, display easily read under tough conditions, helps you save time and avoids errors that lead to complaints. You can choose between weight, status and DeltaTrac display.

■ Data printout

Print the data on control slips, labels, forms or cards using a form or strip printer. Clear text or quickly and accurately processed barcodes are also possible.

■ Recording and processing data

Optional interfaces can be fitted to integrate the ID7-Dos-R²⁰⁰⁰ into your client-server architecture. Full remote operation is possible if required. Or you can easily increase the number of formulae with a PC.

■ Extremely simple materials handling

Our weighing platforms come in a wide variety of types and sizes for different measuring ranges. Mountings for roller tracks and conveyors allow easy incorporation in the production line.

■ Consistent reliability

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



FORMULA CALLED

FORMULA NO. : 05
NAME : SPECIAL-MIXTURE

COMPONENT NO. : 01

NAME :	PORRIDGE
TARG :	50.00 kg
LTM1 :	45.00 kg
LTM2 :	49.74 kg
TOL :	0.40 kg
END TIMER:	000 S
VALVE:	01
OUTPUT 2 :	OFF

COMPONENT NO. : 02

NAME :	WHEAT
TARG :	30.000 kg
LTM1 :	25.000 kg
LTM2 :	20.000 kg
TOL :	18.200 kg
END TIMER:	19.950 kg
VALVE:	0.160 kg
OUTPUT 2 :	000 S
PHASE:	03
	OFF
	CONTINUE

MILLSTREAM Ltd.
your health !

DATE 09.05.00
TIME 20.20.30

Article No. 558965 SZ

Order No. 1258

PORRIDGE	
TARGET	50.00 kg
Actual v.	49.95 kg
Tgt - Actual	-0.05 kg

RAISIN	
TARGET	25.00 kg
Actual v.	24.95 kg
Tgt - Actual	-0.05 kg

DATE 09.05.00
TIME 20.21.49

XLOT 99.90 kg

Typical printout shown actual size.

Technical Data for ID-7-Dos-R²⁰⁰⁰ Application Software

Function keys

N	Enter item counter
TOTAL	Output/print total and statistics
MANUAL	Manual re-dispensing
FORMULA	Load and process formulae
STOP	Interrupt or discontinue dispensing
START	Start or continue dispensing

The Dos-R²⁰⁰⁰ functions

Formula weighing	Automatic weighing of batch of any weight, with up to 32 different constituents chosen from a maximum total of 999. Formulae may be divided into up to 32 phases. Up to 3 of a number of weighing platforms in use may be controlled directly; the platform number can be entered for each constituent. The flow of liquid, viscous or loose materials may be controlled with coarse and fine feed. Tolerance checking with automatic re-dispensing and control of the point at which fine feeding is switched off.
Formulae	Entering/printing/deletion with the keypad in response to prompts, retrieval from 50 formula memories, or loading/retrieval via the serial interface. Recipe memories contain: The recipe ID-number, name of recipe and components, dosing parameters of all components (per component: name of component, display message, target value, limit 1+2, tolerance, end timer, output 2 and tare range for component 1), the phase allocation as well as the number of the target scales, if multi-scale operation is activated. Access to the formula entry function can be protected by a password.
Display messages	Up to 200 messages may be memorized and allocated to each component.
Valve operation	Up to 32 components may be addressed, coded directly (4 Relaybox-8) or binary (output 1–6 of 2 nd Relaybox-8).
Dispensing display	Clear text dispensing 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 dispensing of the first constituent. Monitoring of container within defined tare range.
Learn mode	Automatic determination and optimisation of the points at which the valves are switched off for each constituent. Automatic determination of the weighing tolerances in accordance with national calibration regulations.
Refill correction	Optimises the point at which the fine feeding of each constituent is switched off (limit 2).
Re-dispensing	Manual or automatic pulsed re-dispensing.
Remote operation	ID7-Dos-R can be partially or fully remote controlled and monitored via serial interface.
Operating mode	Manual or automatic dispensing (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 or only the good formulae. 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 are adjustable up max. 9999, for manual or automatic formulating of a certain lot size.
Pac start key, access protection	Interlocking of various keys prevents forbidden operating steps.
Manual correction	Facility for bringing incorrectly dispensed individual constituents to target weight manually.
Material levelling ¹⁾	Switches a device for levelling or mixing the material dispensed. Can be controlled on weight and/or time basis.
Residue ¹⁾	Switches discharge device and residue control.
Filling process ¹⁾	controls a top-up container when dispensing out.
Dispensing monitoring	If the rate of mass flow falls below a preset minimum value, or a preset maximum rate of mass flow is exceeded, dispensing is interrupted.
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 ¹⁾	Universal timer functions before/after dispensing of each constituent.
Pre-dispensing	For reducing coarse feed opening pressure with fine feed depending on time.
Single-dispensing 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 dispensing statuses.

General functions

Info functions	Allows easy retrieval of tare, actual and stored dispensing parameters of the individual constituents, net total, item counter and characteristic data A to D. (Not, however, during an ongoing dosing process.)
Control signals	Via one RS485-ID7 and two to five 8-ID7 relay boxes (accessories).

¹⁾ = configurable per component

