

Simple Component Filling Controller for the Automatic Filling of Liquid and Solid Materials



IT8000E DOS is a universal W&M approved filling controller for use as automatic (AGFI) or non-automatic (NAWI) weighing instrument for the gravimetric filling of liquid and solid material.

IT8000E DOS controls the filling process with fast and slow speed via screw or vibratory feeder or filling valve.

Target weights, tolerances and preact values can be stored in a product file.

Tare check and automatic taring of the empty container is possible.

Two different versions of the housing are available:

- **Compact stainless steel housing** for desk-top / column-mount or wall-mount installation
- **Panel-mount housing** for installation in switch cabinet.

The most important features are:

- **High throughput** enabled by fast signal processing with powerful digital filtering.
- **Accurate fill control** through fast acting, trend-sensing preact optimization and tolerance check.
- **Recording of all data** pertaining to individual fill cycles or batches, optionally with printing or data transmission.

Simple operation via onscreen menus and softkeys ensures error-free operation and minimum training requirements.

Weighing electronics:

- Integrated signal amplifier for connection of up to 16 strain gauge loadcells in 4- or 6- wire mode
- Calibration as single or multiple-range and as single or multi-interval scale.

Fast and precise filling:

- Fast signal processing (up to 800 updates per second)
- W&M approved resolution of 6,000d with a maximum preload of 80%, 524,000d internal resolution
- 1 or 2 speed feeding
- Automatic trend-sensing preact optimization.

Security:

- Flow rate check to monitor material flow
- Powerfail safe storage of data
- Password protection for access to data.

Simple and secure operation:

- Operator prompting on high-contrast TFT color display, data entry via alphanumeric sealed membrane keyboard or optional PC keyboard
- Display of number of fillings, average net weight and remaining fill weight
- Display of product name, target weight and bargraph showing approximation to target
- Error messages marked in red
- Operation via softkeys, i.e. the assignment of the function keys is indicated with clear text in the language of the country
- Up to 99 products with pertaining values for target weight, tolerance, etc. can be stored against a 2-digit product-No.

Ethernet interface (option: WLAN):

Integrated Ethernet interface with selectable IP address for data transmission and remote diagnosis over Internet.

Integrated USB interface:

To connect printer, scanner or PC keyboard.

Serial interfaces

- For printer (option)
- For data transmission to PC (option)
- RS232, 20mA CL, RS422 or RS485, protocol / baud rate selectable.

Digital interfaces:

Optoisolated inputs / outputs (24V) to connect relays / PLC or external relay module.

Electrical connections:

115 (-15%) – 240 (+10%) VAC;
50/60 Hz, option: 12–30VDC,
power consumption max. 20 VA.

Operating temperature:

-10°C to +40°C, max. 95% relative humidity, non-condensing.

Accessories:

- Relay module with safe separation of inputs / outputs (24V, 3A)
- Remote display, etc.

Ex2/22 version:

for installation in Ex zones 2 and 22.

Typical filling cycle:

- Select product - enter target weight and number of batches
- System ready for start- start manually or through external signal
- Tare check and / or automatic taring
- 1- or 2-speed feeding with flow rate monitoring
- Tolerance check with preact optimization and automatic jog feeding if minus tolerance is detected
- Printing and transmission of gross, tare, net, date, time, consec.-No. and product-No.
- Message 'Done' and ready-for-start for the next cycle

Construction:

Desk/wall version



- Stainless steel housing, IP69K
- For desk-top or wall-mount installation or with optional column for floor mounting
- Dimension WxHxD: 330x239x134mm

Panel-mount version



- Stainless steel housing, IP65
- Panel-mount installation
- Dimension WxHxD: 285x224x69mm
- Cut-out in panel: 268x207mm

Display / operation:

Start template for filling

W1	Max 300 kg Min 2.0 kg	e=± 0.1 kg
W1	0.0 kg	
Tare	0.0 kg	
Drum	Average (kg)	Remaining (kg)
0	0.0	
Filling		
Product	1 Motor oil 20W50	
Target	200.0kg	
Ready to start		
Start	Stop full	Return

Product selection, entry of target weight and number of fillings, start

Product file

W1	Max 300 kg Min 2.0 kg	e=± 0.1 kg
W1	24.1 kg	
Tare	0.0 kg	
Settings\Products 6/99		
Product No.	1	
Name	Motor oil 20W50	
Autom. taring	Y	
Tare check	Y	
Tare weight	14.0kg	
Tare tolerance	2.0kg	
Target	200.0kg	
Print	Find	Delete
Info	Exit	

Clearly structured file input masks

Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC

Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R61



EC approval as non-automatic weighing instrument, MID-approval as AGFI



NTEP approval as indicating element



ETL-certified in accordance with UL 60950-1 and CSA C22.2 No. 60950-1



EMI compliance with FCC Part 15