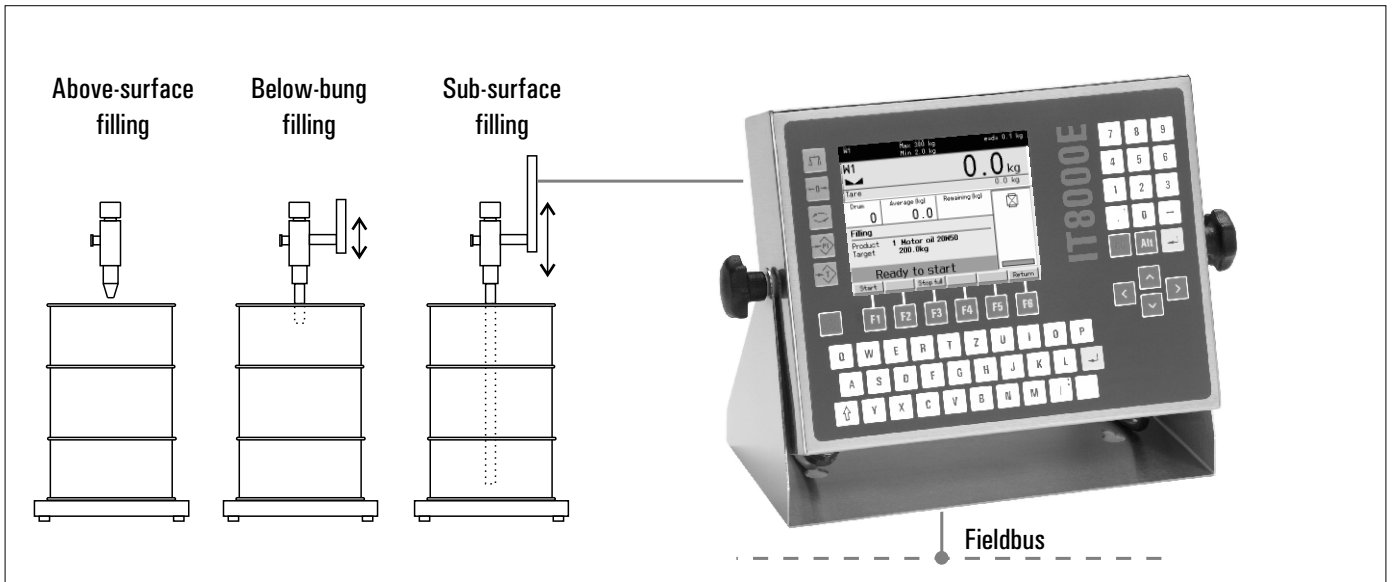


Fill Control for Automatic Liquid Filling Weighing Systems



IT8000E FILL is a universal fill control for use in gravity-fill applications of liquids. The control can be used in both, automatic or non-automatic W&M approved weighing systems.

The controller connects to 1 or 2 scales of any type with analog or digital force transducers.

The **IT8000E FILL** is configurable for various fill lance operations:

- Above-surface
- Below-bung
- Partially sub-surface
- Sub-surface.

Single and multi-containers can be filled in semi or fully automatic operation.

The controller is available in two styles:

- Compact stainless steel enclosure IP65 for desk, floor-column or wall mounting
- Panel-mount version.

The fill controller offers functionality to conform with ISO 9001 standards:

- **Accurate fill control** through fast signal processing, trend-sensing preact adjustment and weight tolerance control
- **High operational security** through extensive monitoring functions and simple operator control
- **Recording of all data** of single or multiple container fills with optional hardcopy printout and/or data transfer.

The **IT8000E FILL** controls the filling lance, fill valve and the container movement onto and off the scale providing maximum throughput.

Operator prompting with clearly structured onscreen menus ensures fast and **error-free operation** and minimum training requirements.

Fast and accurate filling:

- Fast signal processing (up to 800 updates/sec)
- Weights and Measures approved resolution of 6,000d with a max. preload of 80%, 524,000d internal resolution
- Filling with one or two speeds
- Automatic trend-sensing preact adjustment.

Monitoring functions:

- Fill time and product flow control
- Fill valve collision and end stop control
- Limit switch monitoring.

Security:

- Power fail-safe storage of data
- Password protection
- Battery-backed realtime clock
- All error messages can be displayed, printed and transmitted to host system.

Simple and secure operation:

- Operator is guided on a high-contrast color TFT display. Data entry is via alphanumeric tactile acid-resistant membrane keyboard or optional full-size PC keyboard.
- Sequence and operation are individually configurable. This eliminates unnecessary operator actions.
- Up to 99 individual product parameters, eg target weight, tare weight, weight tolerance etc. can be stored against a 2-digit ident number.

Weighing electronics:

- Integrated signal amplifier for connection of up to 2 x 8 strain gauge load-cells using 4- or 6-wire technology
- Calibration as single or multiple-range and as single or multi-interval scale.

Ethernet connection (Option: WLAN):

Integrated Ethernet interface with configurable IP address, for data transmission or remote diagnosis over Internet.

Serial interfaces:

- For printer (option)
- For data transfer to PC (option), protocols: STX...ETX, TTY, AckNak, DUST3964R, etc.
- RS232, 20mA CL, RS422 or RS485 selectable, protocol/baudrate configurable.

Digital interfaces / fieldbus:

- Opto-isolated inputs / outputs (24V) to connect to relays / PLC
- Option: external RS485 relay module, Profibus DP, Profinet or Modbus TCP.

Electrical connections:

110 (-15%) – 240 (+10%) VAC, 50/60 Hz, option: 12 – 30VDC, power consumption max. 20VA

Operating temperature:

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

Accessories:

- Relay module with secure isolation of inputs/outputs (24V, 3A)
- Remote display, and others.

Typical drum filling cycle:

- Product selection - input of target weight and number of containers
- Ready status - start fill manually or via external signal
- Tare check and/or auto-tare function
- Lower fill lance (drum with bung-hole)
- Fill in 1 or 2 speeds with simultaneous monitoring of fill time and material flow (when below-surface fill lance lift during fill is possible)
- Raise fill lance (drum with bung-hole)
- Tolerance weight check with auto-preact adjustment and automatic fill-jog if underweight
- Capture of statistical data - printout and data transfer of gross, tare and net weights, date, time, consec.-No, product ID and associated data - also batch data at batch end
- End of sequence, ready for next filling cycle.

Construction:

Desk/wall version



- Stainless steel housing, IP65
- for desk-top or wall-mount installation or with optional column for floor mounting
- Dimension WxHxD: 330x239x134mm

Panel-mount version



- Stainless steel housing fascia plate protected to IP65
- Panel-mount installation
- Dimension WxHxD: 285x224x69mm
- Cutout in panel: 268x207mm

Display / operation:

Start menu for filling

W1	Max 300 kg	e=± 0.1 kg
	Min 2.0 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	e=± 0.1 kg
	Min 2.0 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

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

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

FC EMI compliance with FCC Part 15