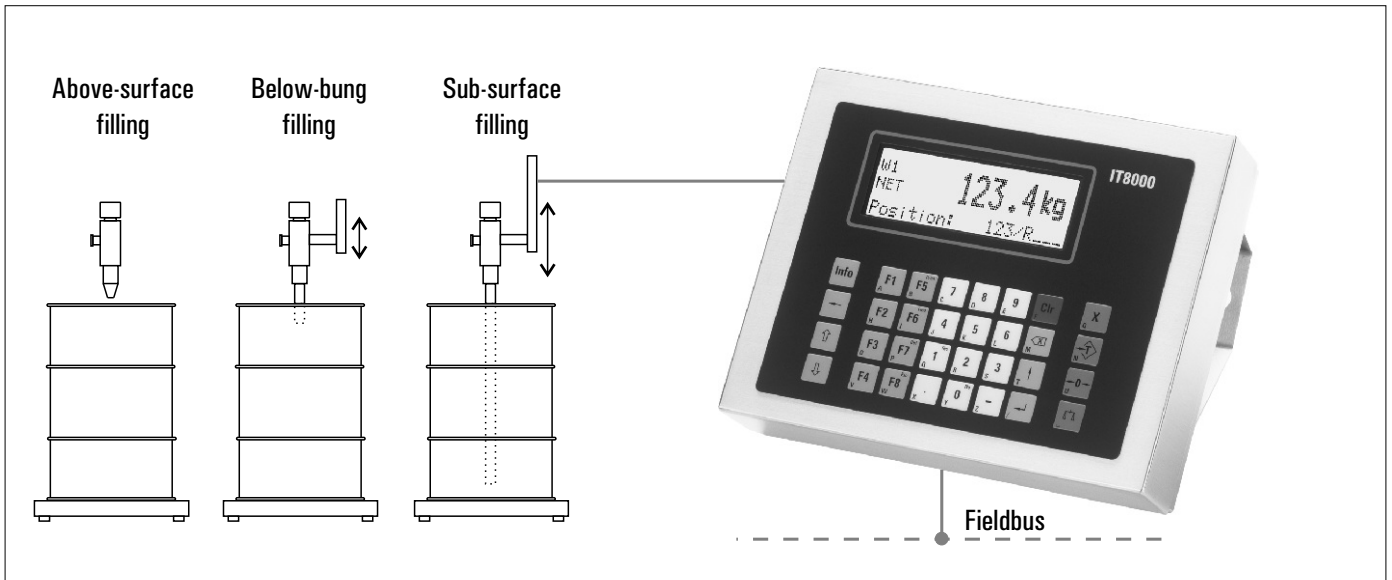


Fill Control for Automatic Liquid Filling Weighing Systems



IT8000 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 weighing systems.

The controller will connect to **loadcells or scales of all types and weighing ranges.**

The **IT8000 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 **IT8000 FILL** controls the filling lance, fill valve and the container movement onto and off the scale ensuring maximum throughput.

Operation via clear operator display prompts is simple and ensures fast and error-free operation and minimum training requirements.

Fast and accurate filling:

- Fast signal processing (50 updates/sec)
- Weights and Measures approved resolutions of 6,000d with a maximum preload of 80%, 524,000d internal resolution
- Filling with one, two or three speeds
- Automatic trend-sensing preact adjustment.

Data capture:

- Comprehensive statistics function with mean weight, standard deviation, container quantities, etc.
- Input, printing and transfer of application-related data, eg order-No., batch- No., shift-No., operator ID, etc.

Monitoring functions:

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

Simple and secure operation:

- Operator is guided through the fill process on a high-contrast alphanumeric display. Data entry is via alphanumeric tactile acid-resistant membrane 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.

Simple integration:

- Stand-alone or remote-controlled operation possible; material parameters, etc. can be keyboard entered or downloaded via serial interface
- Accept, Start, Interrupt functions are possible from external switches.

Security:

- Data is retained in the event of power loss
- Password protection
- Battery-backed realtime clock
- All error conditions may be displayed, printed out and transferred to other system.

Weighing electronics:

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

Serial interfaces:

- For printer (option), protocol: EPSON or TTY
- For data transfer to PC (option)
- RS232, 20mA CL or RS485 selectable, protocol/baudrate configurable.

Ethernet connection:

Optional built-in Ethernet interface.

Digital interfaces:

- Opto-isolated inputs/outputs (24V) for connection to relay module or PLC
- Option: Profibus DP or DeviceNet.

Electrical connections:

110 (-15%) – 240 (+10%) VAC, 50/60 Hz, option: 12 – 30VDC, power consumption max. 25VA

Operating temperature:

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

Accessories:

- Support column for floor mounting
- Relay module with secure isolation of inputs/outputs (24V, 3A).

Ex version (option):

Model IT8000Ex with ATEX approval for installation in hazardous area, zone 1 (gas) or zone 21 (dust), with limited interface options (see IT8000Ex leaflet).

Model IT8000 Ex2/22 with ATEX approval for installation in hazardous area, zone 2 (gas) or zone 22 dust).

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 1,2 or 3 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
- Available for desk-top or wall-mount installation or with optional column for floor mounting
- Dimensions WxHxD: 260x210x135mm

Panel-mount version



- Stainless steel housing, fascia plate protected to IP65
- Panel-mount installation
- Dimensions WxHxD: 260x215x70mm
- Cut-out in panel: 243x198mm

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 non-automatic weighing instrument



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



EMI compliance with FCC Part 15



Mesures Canada: Approval as non-automatic weighing instrument



Russia: Approval as non-automatic weighing instrument, AGFI



Ukraine: Approval as non-automatic weighing instrument, AGFI