



IT6000E BAG

Fill Control for Automatic Bagging Systems

IT6000E BAG is a universal automatic filling control (AGFI) for use in gravity-fill applications of bulk material into bags.

The controller will connect to load cells or scales of all types and weight ranges including for Ex-area applications, e.g.:

- **Floor scales**
- **Built-in scales**
- **Tension load cells.**

Single bags or batches can be filled in semi or fully automatic operation. Also selectable is gross or net mode.

The controller is available in two styles:

- **Compact stainless steel enclosure** for desk or wall mounting
- **Panel-mount version.**

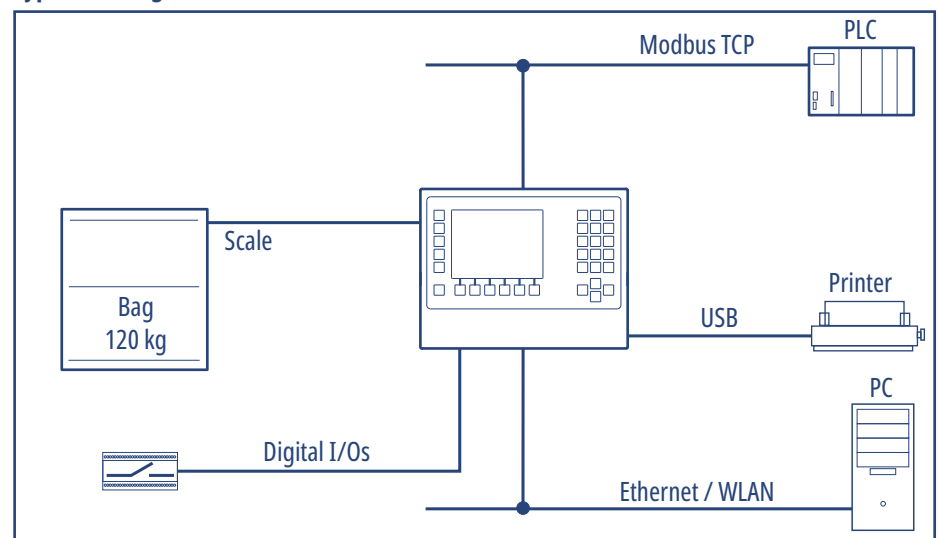
Essential features:

- **Maximum throughput** through fast signal processing with efficient digital filtering
- **Accurate fill control** through fast acting 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 bags or batches with optional hardcopy printout and/or data transfer.

IT6000E BAG controls the filling process via screw feeders, sliding gates or vibratory feeders. Optionally, bag clamps and the movement of bags onto and off the scale can be controlled.

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

Typical Setting:



Fast and accurate filling

- Fast signal processing (50–800 updates per second)
- W&M approved resolution 6,000 d with a max. preload of 80 %, internal resolution 524,000 d
- 1- or 2-speed filling
- Automatic trendsensing preact optimization.

Data capture of all relevant data

- Data logging of total weight, number of fillings, out-of-tolerance fillings etc.
- Optional entry, printout and transmission of application-related data, e.g. order number, batch number, shift number or operator ID, etc.

Security

- Power-fail-safe data storage
- Password protection
- Battery-backed real-time clock.

Simple integration

- Stand-alone or remote-controlled operation possible
- Accept, Start, Interrupt functions are possible from external switches.

Monitoring functions

- Bag rupture check / flow rate monitor
- Tolerance check
- Tare check.

Simple and secure operation

- Operator is guided on a high-contrast color TFT display. Numeric keyboard with multiple key assignment for the entry of alphanumeric data, tactile acid-resistant membrane keyboard and softkeys or optional full-size PC keyboard
- Sequence and operation are individually configurable. This eliminates unnecessary operator actions.
- Up to 99 products with pertaining values for target weight, weight tolerance etc. can be stored against a 2-digit id number.

Weighing electronics

- Integrated signal amplifier to connect up to 16 strain gauge load cells in 4- or 6-wire mode
- 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)
- RS232, 20mA CL, RS422 or RS485 selectable, protocol/baud rate configurable.

Integrated USB interface (option)

For connection of printer, scanner or PC keyboard.

Digital interfaces / Modbus TCP

- Opto-isolated inputs/outputs (24 V) for connection to external relays
- Option: external RS485 relay module
- Option: connection to PLC or SCADA system over Modbus TCP (Slave).

Analog output (option)

15 bit resolution, 32,000 divisions, 0–10 V, 2–10 V, 0–20 mA or 4–20 mA.

Electrical connections

110 (–15 %)–240 (+10 %) V AC;
50 / 60 Hz, option: 12–30 V DC,
power consumption max. 20 VA.

Operating temperature

–10 °C (+14 °F) to +40 °C (+104 °F) at
max. 95 % relative humidity, non condensing.

Bag filling in gross or net mode

- Product selection – input of target weight (number of bags or total weight)
- Entry of IDs
- Ready status – start filling
- Tare check and/or automatic taring
- Filling with 1 or 2 speeds
- Tolerance weight check and automatic preact adjustment
- Capture of statistical data – optional printout and transmission of gross, tare and net weights, date, time, consec. number, product ID and associated data
- End of sequence, ready for next filling cycle.

Construction:

Desk/wall version



- Stainless steel housing, IP69K, NEMA 4X
- Dimension W x H x D: 330 x 239 x 134 mm (13.0" x 9.4" x 5.3")

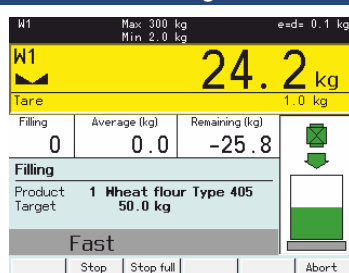
Panel-mount version



- Stainless steel housing, fascia plate protected to IP69K, NEMA 4X
- Dimension W x H x D: 285 x 224 x 69 mm (11.2" x 8.8" x 2.7")
- Cutout in panel: 268 x 207 mm (10.6" x 8.1")

Display / operation:

Filling



Filling with display of product data and deviation from target weight

Product File



Template for entry of product data in product file, softkeys for simple operation

Directives: 2014/30/EU, 2014/31/EU, 2014/32/EU, 2014/35/EU

Standards: EN 45501, OIML R 76-1, EN 61000-6-2, EN 61000-6-4, NAMUR NE21, EN 62368-1, OIML R 61

CE EU Type-examination Certificate as AGFI

NTEP NTEP approval as indicating element

ETL ETL certified in accordance with UL 62368-1 and CSA C22.2 No. 62368-1

FC EMI compliance with FCC Part 15

Canada Measurement Canada: Approval as indicating element

UK CA Type-examination Certificate as AGFI