## Bulkweighing Controller – Weights and Measures Approved, for Shipping and Receiving Systems



**IT8000E** *BULK* is a universal bulkweighing controller for the shipping and receiving of bulk material.

The controller captures the weight of incoming material and fills outgoing shipments to a preset target weight.

**IT8000E** *BULK* will connect to all scales with strain gauge load cells.

**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 batch data e.g. product-related weight totals, batch protocols and test reports for W&M acceptance. Optionally, printout of data and/or data transmission
- Remote diagnosis and remote operation possible over Internet.

The terminal is available in two styles:

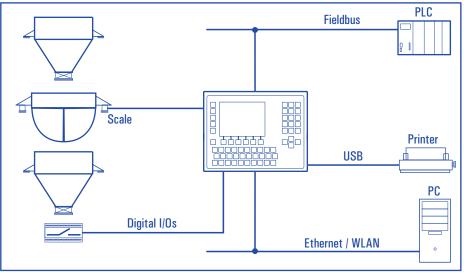
- Compact stainless steel enclosure for desk or wall mounting
- Panel-mount version.

**IT8000E** *BULK* controls the filling process via screw feeders, sliding gates or flaps for up to 128 silos.

**IT8000E** 

BULK

Operator prompting and permanent indication of status with **clearly structured menus** on **color screen** ensure **fast and error-free** operation and minimum training requirements.



#### **Typical Setting:**



# IT8000E *BULK*

### Fast and accurate filling

- Fast signal processing (800 updates / sec)
- Weights and Measures approved resolution of 6,000 d with a max. preload of 80 %, internal resolution 524,000 d
- 1- or 2-speed filling
- Automatic trend-sensing preact optimization.

#### Data capture of all relevant data

- Data logging of total weight, product-related totals and shift totals
- Optional entry, printout and transmission of application-related data, e.g. order number, batch number, shift ID.

#### Simple integration

- Stand-alone or remote-controlled operation over fieldbus possible
- Start / stop functions are possible from external switches.

#### Simple and secure operation

- Operator is guided through the process on a high-contrast TFT display. Data entry via alphanumeric keyboard and softkeys
- Up to 128 products with pertaining values for target weight, preact, weight tolerance etc. can be stored against a 3-digit ident number.

#### Monitoring functions for

- Tolerance, filltime and flow rate
- Material supply and air pressure.

#### Security

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

#### Weighing electronics

Integrated signal amplifier to connect up to 16 strain gauge load cells in 4- or 6-wire mode.

#### Ethernet connection

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 etc.
- RS232, 20mA CL, RS422 or RS485 selectable, protocol/baud rate configurable.

#### Digital interfaces / Fieldbus

- Opto-isolated inputs / outputs (24 V) to connect relays or a PLC, or
- External RS485 relay module, or
- Profibus DP, Profinet, Ethernet/IP or Modbus TCP.

#### **Electrical connections**

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

#### Operating temperature

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

#### Accessories

Relay module with secure separation of inputs and outputs (24 V, 3 A).

#### Ex2/22 version

For installation in Ex zones 2 and 22.

#### Status display during operation:

- Display of order number, customer data, product number and name, shipped/received quantity, number of tip cycles, throughput rate and operation status
- Display of clear-text error messages, e.g. 'Surge hopper not empty'
- Colored visulization of supply, weigh and surge hopper.

#### **Construction: Display / operation:** Product file Desk/wall version Panel-mount version Shipping / receiving Max 300 kg Min 2 0 kg Μ1 ▶04 Øt/h Batch total (kg Settings\Files\Products 4/128 11 24.5 1061.9 Product No. nulate 200.0kg 50.0kg Name Tip target Batch 32145698721 Product Customer 1 Granulate 107 R.A.C Ltd. Stainless steel housing, Fast preact Stainless steel housing, . Slow preact 5.0ka IP69K, NEMA 4X fascia plate protected to Tolerance check N Feeding.. IP69K, NEMA 4X Dimension W x H x D: 330 x 239 x 134 mm (13.0" x 9.4" x 5.3") Stop | DW Info | Abort Print Find Delete Exit Finish Total Batch Info Dimension W x H x D: 285 x 224 x 69 mm Display of order data and Entry of product data, softkeys (11.2" x 8.8" x 2.7") visualization of supply, for simple operation Cutout in panel: 268 x 207 mm (10.6" x 8.1") weigh and surge hopper Directives: 2009/23/EC, 2004/108/EC, ETL certified in accordance EC approval as non-automatic Ukraine: Approval as non-(EII) 2006/95/EC, 2004/22/EC weighing instrument, MID approval with UL 60950-1 and automatic weighing instrument CSA C22.2 No. 60950-1 as discontinuous totalizer Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, EMI compliance with EtherNet/IP NAMUR NE21, EN 60950, FCC Part 15 OIML R107 NTEP approval as prof**o**® PROFI indicating element Measurement Canada: Approval as TNETT TBIUIST non-automatic weighing instrument

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