![Systec — Discover smart weighing]

IT8000E *CHECK*

Checkweighing Terminal for Piece Goods

IT8000E *CHECK* is a checkweighing and/or catchweighing terminal for automatic W&M approved control of piece goods. Weighing can be in dynamic or start / stop mode.

The controller will connect to single-point load cells or 4-load-cell platforms with force introduction according to type approval certificate.

The **IT8000E *CHECK*** stores target weights and tolerance zones for up to 99 different products.

The weight check is started via a scale-mounted light barrier or after exceeding a preset weight threshold.

W&M approved dynamic scales always require two light barriers.

The current deviation from target weight as well as standard deviation and mean weight are displayed on the color screen.

Over- and underweight can be rejected with a pusher or via control signal outputs.

The checkweighing results are captured in a statistics file and can be displayed, printed or transferred to a host computer.

For each batch, the statistics file contains – among others – standard deviation, mean value, number of weighings and total weight.

High resolution and fast signal processing of the **IT8000E *CHECK*** enable a **rapid and precise classification of the product into one of five weight zones.**
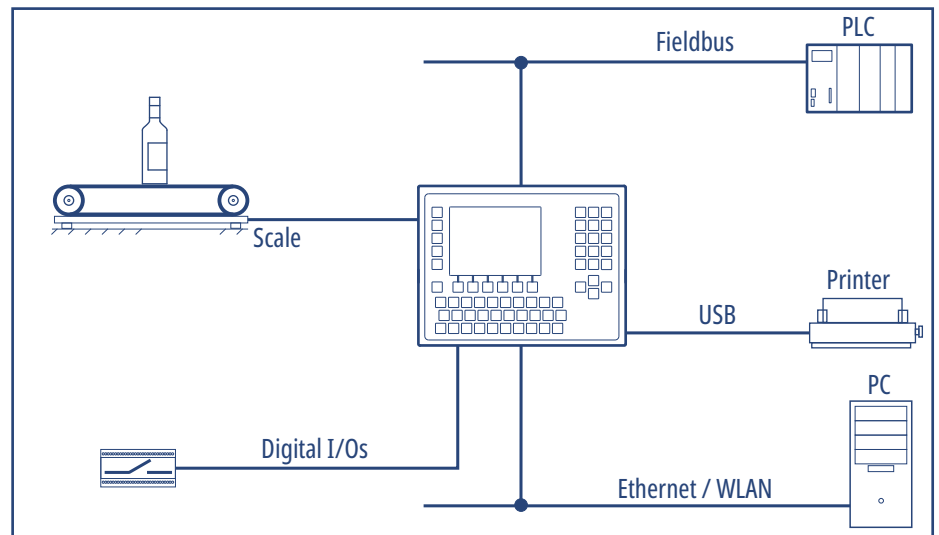
In dynamic mode (without stop of conveyor) a belt speed of up to 1.2 m/s (4 ft/s) is permitted.

Simple operation with onscreen menus ensures fast and error-free handling.

The controller is available in two styles:
- **Compact stainless steel enclosure** for desk or wall mounting
- **Panel-mount version**.

Typical Setting:

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Fast and accurate checkweighing

- Fast signal processing
  (up to 800 updates / sec)
- Weights and Measures approved resolution of 3,000 d with a max. preload of 80 %, internal resolution 524,000 d
- 5-zone classification.

Capturing of all relevant data

- Comprehensive statistics function with mean weight, standard deviation, number of weighings etc.
- Printout in compliance with Regulations for Prepackaged Goods
- Input, printout and transfer of application-related data, e.g. order number, batch number, shift or operator ID.

Control functions

- Control of belt or roller conveyor
- Operation selectable, without, with one or with two light barriers (W&M approved dynamic operation always requires two light barriers)
- Control signal outputs for reject devices.

Simple and secure operation

- Operator is guided on a high-contrast color TFT display. Data entry via alphanumeric tactile acid-resistant membrane keyboard or optional full-size PC keyboard
- Up to 99 with pertaining values for target weight, tolerance zones etc. are stored against a 2-digit ident number.

Security

- Power-fail-safe data storage
- Password protection of all data
- Battery-backed real-time clock
- Error messages as text display with changing color.

Simple integration

- Accept, Start, Interrupt functions are possible from external switches
- Data transmission and remote control via fieldbus connection.

Weighing electronics

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

Integrated USB interface (option)

To connect printer, scanner, PC keyboard or to store weighing data on USB stick.

Digital interfaces / Fieldbus

- 4 opto-isolated inputs / outputs (24 V) to connect MCC / PLC
- Options: Ethernet/IP, Profibus DP, Profinet or Modbus TCP

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),
max. 95 % relative humidity, non condensing.

Accessories

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

Ex2/22 version

For installation in Ex zones 2 and 22.

Typical checkweighing cycle:

- Product selection – target weight and tolerance zones are preset
- Ready status – start conveyor
- Detection of product with one or two light barriers or by weight threshold, start of checkweighing
- Weight capture, zone classification and entry into statistics file
- Optional printout or transfer of weighing data
- Next checkweighing cycle ...

Construction:

Desk/wall version

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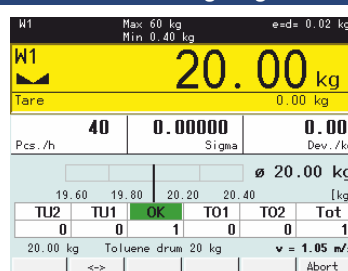- Dimension W x H x D: 330 x 239 x 134 mm (13.0" x 9.4" x 5.3")

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")
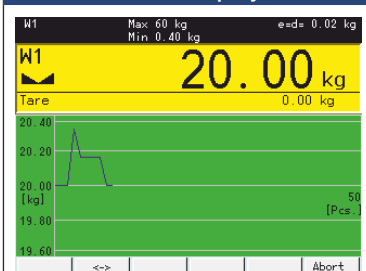- Cutout in panel: 268 x 207 mm (10.6" x 8.1")

Display / operation:

Checkweighing

Display of check weight, tolerance zone and statistics

Trend display

Trend display of checked weights

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 51

CE — EU Type-examination Certificate as non-automatic weighing instrument, automatic checkweighing and catchweighing instrument, dynamic or static weighing in automatic mode (only in start-stop operation)

NTEP approval as indicating element

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

FC — EMI compliance with FCC Part 15

Measurement Canada: Approval as indicating element

UKCA — EU Type-examination Certificate as non-automatic weighing instrument, automatic checkweighing and catchweighing instrument

EtherNet/IP

PROFINET   PROFIBUS

Sales and service

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