

Checkweighing Terminal for Piece Goods on Belt or Roller Conveyors



IT8000E CHECK is a checkweighing terminal for automatic control of piece goods.

The controller will connect to loadcells or scales of all types and weighing ranges, eg:

- Conveyor belt scales
- Roller track scales
- Pit-mounted scales.

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

The weight check is started via a scale mounted photo-electric cell or after exceeding a preset weight threshold. Operation can be dynamic or in start/stop mode, allowing for settling of the scale. Weight deviation from target and standard deviation or mean weight is displayed on the color screen.

Over- and underweight can be rejected via control signal outputs.

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

The statistics file contains, for each product, standard deviation, mean value, number of weighings, total weight, etc.

High resolution and fast signal processing of the **IT8000E CHECK** enables a rapid and precise classification of the product into one of five weight zones.

Simple operation with clear operator prompts ensures fast and error-free operation.

The controller is available in two styles:

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

Fast and accurate checkweighing:

- 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
- 5-zone classification.

Data capture:

- 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, eg order-No., batch-No., operator ID, etc.

Monitoring functions:

- Control of belt or roller conveyor
- Operation selectable, without, with one or with two light barriers
- Control signal outputs for reject device.

Simple and secure operation:

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

Security:

- Data is retained in the event of power loss
- Password protection of all data
- Battery-backed realtime clock
- Error messages as text display with changing color.

Simple integration:

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

Weighing electronics:

- Calibration as single or multiple-range and as single or multi-interval scale
- Connection of digital loadcells (option).

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/baudrate configurable.

Digital interfaces / fieldbus:

- 4 opto-isolated inputs / outputs (24V) to connect MCC / PLC
- Option: external RS485 relay module, Profibus DP or Profinet.

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:

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

Checkweighing



Display of check weight, tolerance zone and statistics

Product file



Product file data entry

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 R51



EC approval as non-automatic weighing instrument, MID approval as automatic catchweighing instrument, (only in start-stop operation)



NTEP approval as indicating element



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



EMI compliance with FCC Part 15