

Checkweighing Terminal for Piece Goods on Belt or Roller Conveyors



IT8000 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 **IT8000 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.

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 **IT8000 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 (IP65) for desk, floor-column or wall mounting
- Panel-mount version.

Fast and accurate checkweighing:

- Fast signal processing (50 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 alphanumeric display. Data entry via alphanumeric tactile acid-resistant membrane 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.

Simple integration:

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

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
- Connection of digital loadcells (option).

Serial interfaces:

- For printer (option), protocol: EPSON or TTY
- For data transfer to PC (option)
- RS232, 20mA CL, RS422 or RS485 selectable, protocol/baudrate configurable.

Ethernet connection:

Optional built-in Ethernet interface.

Digital interfaces:

- 4 opto-isolated inputs/outputs (24V) for connection to relay module or PLC
- Options: relay module, 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)
- Scanner, etc.

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 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, 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 R51



EC approval as non-automatic weighing instrument, MID approval as checkweigher, automatic catchweighing instrument, weigh labeler, weigh-price labeler



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, automatic catchweighing instrument



Ukraine: Approval as non-automatic weighing instrument, automatic catchweighing instrument