IT6000E *EASY-CHECK*
Checkweighing Terminal for Piece Goods

IT6000E *EASY-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. W&M approved weighing is only possible in start/stop mode (with stop of conveyor).

The controller will connect to single-point load cells or 4-load-cell platforms.

The **IT6000E *EASY-CHECK*** stores target weights and tolerance zones for up to 99 different products.

In start/stop mode, the weight check is started via a scale-mounted light barrier. Dynamic scales always require two light barriers.

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

Weighing data are saved in the integrated memory.

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

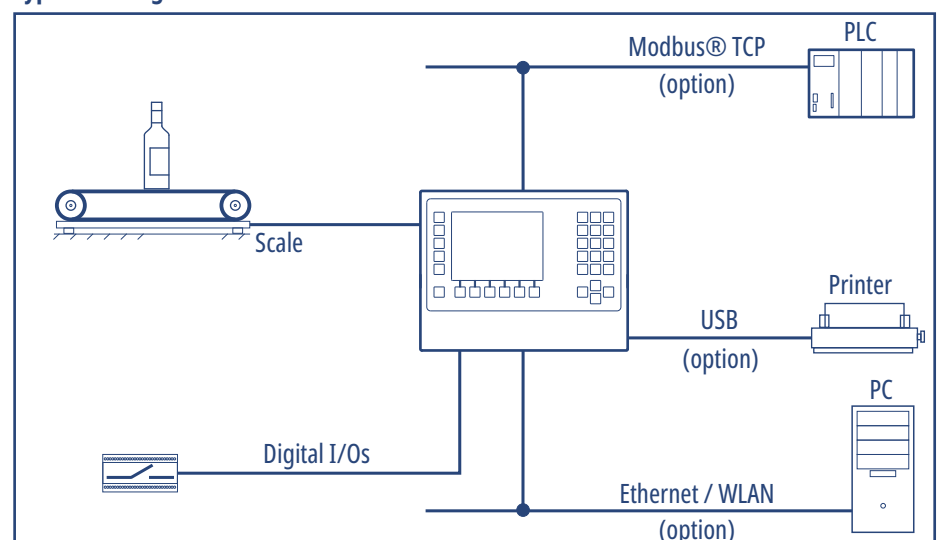High resolution and fast signal processing of the **IT6000E *EASY-CHECK*** enable a **rapid and precise classification of the product into one of five weight zones. In dynamic mode (without stop of conveyor) a belt speed of up to 1.2 m/s (4 ft/s) is possible**.

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:

IT6000E *EASY-CHECK*

Checkweighing Terminal for Piece Goods

Fast and accurate checkweighing

- Fast signal processing (up to 450 updates / sec)
- Weights and Measures approved resolution of 6,000 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.

Control functions

- Control of belt or roller conveyor
- Operation selectable, with one or with two light barriers (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. 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
- Up to 99 products 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

Start function possible from external switch

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 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 / Modbus® TCP

- 4 opto-isolated inputs / outputs (24 V) to connect MCC / PLC
- Option: external RS485 relay module
- Connection to PLC or SCADA system over Modbus® TCP (Slave)

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, start of checkweighing
- Weight capture, zone classification and storing in internal memory
- **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

Product File

Entry of product data, 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 51

CE — EU Type-examination Certificate as NAWI, automatic checkweighing and catchweighing instrument (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 — Type-examination Certificate as NAWI, automatic checkweighing and catchweighing instrument (in start/stop operation)

Modbus®

Sales and service