

# IT8000



## Universal Weighing Terminal, W&M Approved, for Industrial Use

# IT8000 - Universal Industrial Weighing Terminal

## Stainless steel housing IP65

Suitable for harsh environment weighing locations. With mounting brackets for desk-top or wall-mount installation. Integrated power supply unit, sealed cable glands for all cable connections.



## LCD Dual-line display with back lighting.

Up to 4 x 20 alphanumeric characters, multi-lingual operator prompts and calibration dialog.

## Keyboard

With function keys for zero setting, taring and printing, numeric keys for the entry of manual tare and IDs.

Alphanumeric entries possible via multiple key assignment.

Application-specific functions directly accessible via function keys.

## Power supply

110 – 240VAC (integrated) for stationary use or 12 – 30VDC (integrated) for mobile use.

## Universal use

Industrial design, modular concept, proven standard programs and free programmability make the IT8000 the ideal weighing terminal for:

shipping and receiving scales, batching and recipe weighing systems, filling controllers for drums or IBCs and for weighing installations with customized operating sequences.

## Weighing electronics

For the connection of 1 or 2 scale platforms with a max. of 16 analog loadcells the IT8000 provides a W&M approved resolution of up to 6000d with max. 80% preload. Calibration is possible as single or multiple-range (eg 3x3000d) and as single or multi-interval scale.

Internal data archive for the storage of up to 450,000 weighing transactions.

## Modular concept

The modular design provides for a variety of configurations and options, such as:

- Enclosures for wall-mount, desk-top or panel-mount installation
- DC or AC power supply
- Connection of scales with analog or digital force transducers
- Up to 4 serial interfaces, RS232, RS485, RS422, 20mA CL selectable
- Flexible I/O concept for up to 64 inputs and outputs
- Several fieldbus interfaces, eg Profibus DP, DeviceNet and Interbus
- Ethernet interface
- Analog I/Os, etc.

This ensures that the optimal system configuration can be chosen, for stationary as well as mobile use. Specific software modules support the connection of PCs, PLCs, scanners, transponder systems, printers, frequency inverters and wireless communication.

## Free programmability

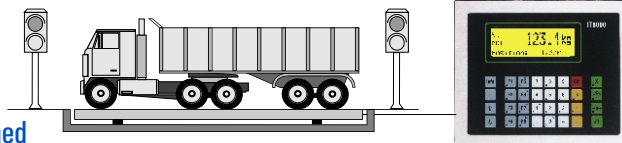
Standard programs can be adapted to the requirements of specific applications. New programs can be designed in a very simple way on a PC with the RTG program development environment.

## High operational security

Fast and error-free operation is ensured by a high-contrast alphanumeric back-lit LCD for the indication of weight, IDs and operator prompts in combination with an easy-to-use tactile keyboard for the entry of manual tare and additional data.

## TRUCK/ONLINE

**W&M approved truck scale terminal** files for customer, supplier and product data; internal W&M approved data archive; configurable print format; switching / summing function for combined

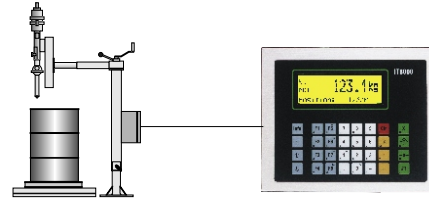


Scale with switching / summing function

**Connection to:** printer, PC (serially or via Ethernet), transponder system, remote display, traffic lights, etc.

## FILL

**Filling controller for liquids** operation as automatic or non-automatic weighing instrument, fast / slow feeding with preact optimization, files for products and statistics, control of filling lance and conveyor

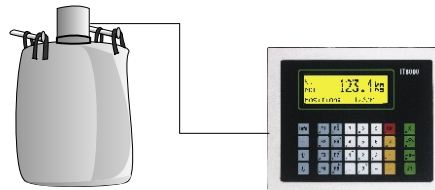


Scale to fill drums, pails, cans or hobbcks

**Connection to:** fieldbus (e.g. Profibus DP), label printer, PC, etc.

## BIGBAG

**Filling controller for IBCs** with two-speed filling and preact optimization, files for product parameters and statistics, control of inflation, compression and aeration equipment, filltime check, optional fieldbus interface

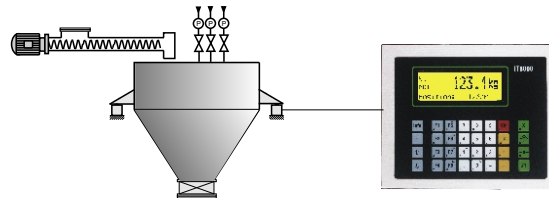


Scale integrated in IBC filling structure

**Connection to:** motor control center (internal PLC software optional), fieldbus, Ethernet, printer, etc.

## BATCH

**Multi-material batchweighing controller** with files for raw materials and recipes, automatic two-speed or manual batching, synchronization steps for process control, batch protocol and material statistics

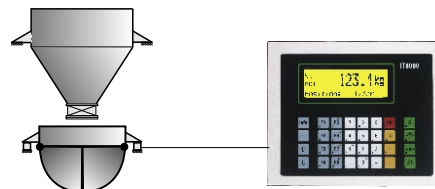


Batching of liquid or solid material

**Connection to:** fieldbus (e.g. Profibus DP), process control system, printer, scanner, etc.

## BULK

**Bulkweighing controller** for shipping and receiving of bulk material via trucks, freight cars or ships; with product files and control of silos, remote control possible via fieldbus (e.g. Profibus DP)

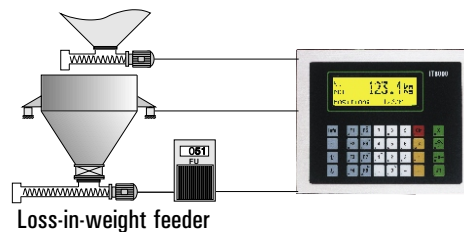


Bulkweigher

**Connection to:** motor control center or PLC, fieldbus, Ethernet, printer, remote display, etc.

## FLOW CONTROL

**Loss-in-weight controller** continuous discharging from weigh hopper for the feeding into mixers or extruders, control of screw or vibratory feeder or adjustable valve via frequency inverter, with PID controller

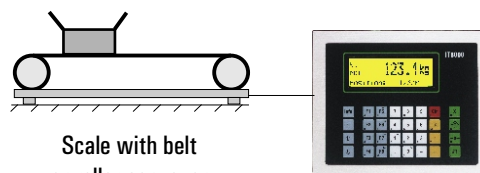


Loss-in-weight feeder

**Connection to:** frequency inverters (SIEMENS, Danfoss, KEB, Lenze, and others), fieldbus, printer, etc.

## CHECK

**Checkweighing terminal for piece goods** checkscale with belt or roller conveyors, operation in dynamic or start / stop mode, 5 tolerance zones, files for products and statistics

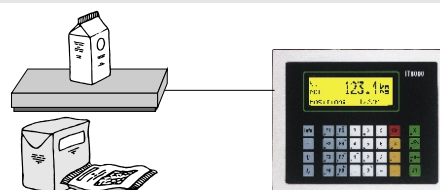


Scale with belt or roller conveyor

**Connection to:** light barriers, rejecter, scanner, PLC or fieldbus, printer, etc.

## SOC

**Sample scale as per FPVO (Finished Packaging Regulation)** capturing and printout of statistical data for 200 products on 20 production lines, check by weight or volume, with entry of additional IDs



Desk-top, bench or floor scale

**Connection to:** printer, scanner, PC, etc.

## Weighing electronics

For the connection of 1 or 2 scale platforms with a max. of 16 analog loadcells in 4- or 6-wire technique, W&M approved resolution 6000d, at a max. of 80% preload, internal resolution 524,000d, 50 updates per sec., input signal 0.33µV/e. Option: connection of scale platforms with digital force transducers. Option: up to 6 external scale connections.

## Calibration

Setup as single or multiple range scale with 1, 2 or 3 ranges or as multi-interval scale. Calibration with test weights or through entry of rated output of loadcell(s), option for the linearization of the load curve. Clear operator prompts for all steps of calibration sequence.

## Electrical connection

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

## Operating temperature

- 10°C to + 40°C, 95% relative humidity, non-condensing.

## Display and keyboard

**4x20-character alphanumeric back-lit LCD display**, height of characters for weight indication 19mm, operator prompts and calibration via 20-character text display.

Sealed membrane **keyboard** with tactile feedback, with numeric keys for the input of tare weights and additional information, scale keys for zero setting and taring and function keys. Input of alpha characters via multiple assignment of numeric keys. Optional connection of PC keyboard.

## Serial interfaces

**Up to 4** interfaces, selectable RS232, 20mA CL, RS422 or RS485, for printer, host communication, precision scales and other peripheral devices, protocols for PC, printer and remote display configurable.

## Parallel I/Os

**4 internal optoisolated inputs and outputs**, 24VDC, or external relay / transistor module (64 inputs, 64 outputs max.)

### Internal analog output

(15bit; resolution 32,768 steps) or external module for 4 analog inputs/outputs (12bit; 4,096 steps).

## Fieldbus interfaces

**Fieldbus interface Profibus DP**, alternatively Interbus, DeviceNet or Modbus (RTU).

## Ethernet connection

via internal Ethernet interface as option.

## Security

Powerfail safe storage of data, password protection, battery-backed realtime clock, remote diagnosis.

## Free programmability

Comprehensive, PC-based RTG *W/M* program development and test environment including program generator (CASE tool), Pascal and PLC instruction lists.

## Options

**W&M approved data archive on PC**, storage of weighing data on the PC's harddisk, longterm archiving possible over several years.

### Backup & Restore,

Software to backup data on PC.

### PC COM+

ActiveX component for PC connection.

### Splash and dust cover

Transparent plastic cover to protect display and keyboard.

## 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:** 90/384/EEC, 2004/108/EC, 2006/95/EC, 2004/22/EC

**Standards:** EN45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R51, OIML R61, OIML R107



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



NTEP-approval as non automatic weighing instrument



UL-certified in accordance with UL 60950-1 and CSA C22.2 No. 60950-1-03



EMI compliance with FCC Part 15

Sales and service

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