



Type IT8000E W & M Approved Weighing Terminal For challenging Weighing and Filling Applications

Stainless steel housing IP69K

W & M approved – 6000d single or multiple range

Panel, wall or desk mountable

Bright TFT colour display with wide viewing angle

110 – 240 VAC integrated power supply

Flexible I/O concept for up to 64 inputs and outputs

Optional external 12 – 24 VDC battery

Fieldbus interfaces Ethernet/IP, Profibus DP, Profinet, or Modbus TCP

The W & M approved IT8000E is designed for applications in the chemical and pharmaceutical industry, in the food industry and in many other sectors of industry.

The industrial design with the powerful modular hardware and the concept of free programmability make the IT8000E the ideal weighing terminal for standard or application specific solutions, e.g. for:

- Shipping and receiving
- Filling and batching systems
- Totalising bulkweighers
- Checkweighers
- Vehicle / axle weighing
- Mobile data capture systems

IT8000E W&M Approved Weighing Terminal

Technical Specification Sheet

Stainless steel housing IP69K

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

Simple and fast operation

With integrated alphanumeric keyboard, function keys and programmable soft keys, optional full-size PC keyboard.



Bright colour TFT display

With wide viewing angle, large weight display and 4 to 8 input lines

Stationery or mobile use

With integrated 110 – 240 VAC power supply unit or via external 12 / 24 VDC battery

Weighing Electronics

1 or 2 internal and up to 6 external scale interfaces possible. Adjustable update rate with up to 800 updates / second. High noise immunity of min. 10 V/m against radio frequency interference. W & M approved resolution of up to 6000 d with max. 80% preload. Calibration is possible as single or multiple range (e.g. 3 x 3000 d) and as multi-interval scale. Internal data archive for the storage of up to 120,000 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 or as blackbox.
- DC or AC power supply.
- Connection of scales with analogue or digital force transducers.
- 10/100 Mbit Ethernet interface with integrated web server, WLAN as option.
- Integrated USB 2.0 host interface for printer, scanner and USB stick
- Up to 4 serial interfaces RS232, RS485, RS422 or 20mA CL, selectable.
- Flexible I/O concept for up to 64 inputs and outputs.
- Fieldbus interfaces Ethernet/IP, Profibus DP, Profinet or Modbus TCP.
- Analogue I/Os, etc.

This ensures that the optimal system configuration can be chosen, for stationary as well as mobile use.

Free programmability

Standard programmes can be adapted to the requirements of specific application.

New programmes can be designed and tested in a very simple way on a PC with the RTC programme development environment.

Simple Integration

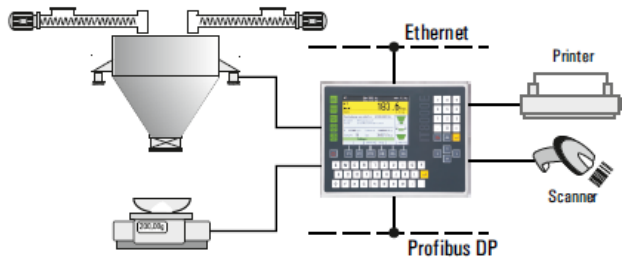
The Linux based operating system with the integrated web server provides the ideal functionality for the integration of the IT8000E into local area networks.

WLAN communication and remote access via internet are also possible.

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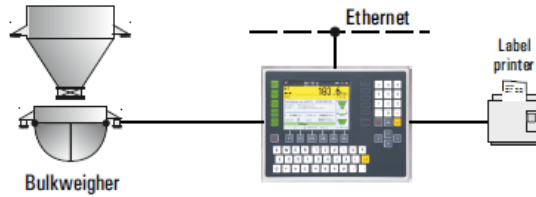
Technical Specification Sheet

BATCH



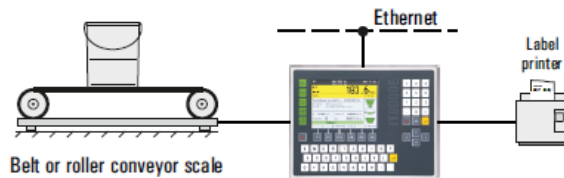
Automatic and manual batching system
 With up to 4 scales, management of raw materials and recipes, fast and accurate multi-component two-speed batching, with preact optimization, or manual batching with bargraph display and indication of remaining quantity, control of process steps (via I/Os or Profibus DP), printing of batch protocol, material statistics, optional download of recipes over network, storage of batch results in the network.

BULK



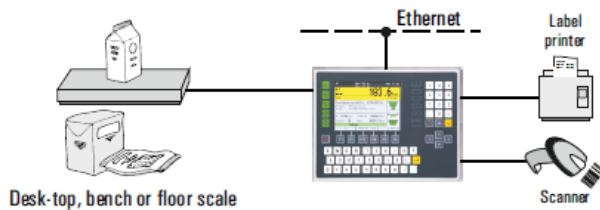
Bulkweighing controller
 For shipping and receiving of bulk material via trucks, freight cars or ships, with product files and control of silos, remote control possible via fieldbus (e.g. Profibus DP).

CHECK



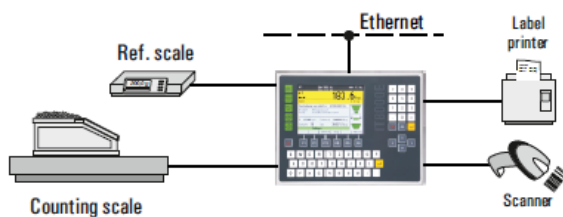
Checkweighing scale
 Fast capturing of weights from scales with belt or roller conveyors, in continuous or start/stop operation, classification of test objects in 5 tolerance zones, control of rejecters or pushers possible, optional connection to printer for price labeling, with product and statistics file.

SQC



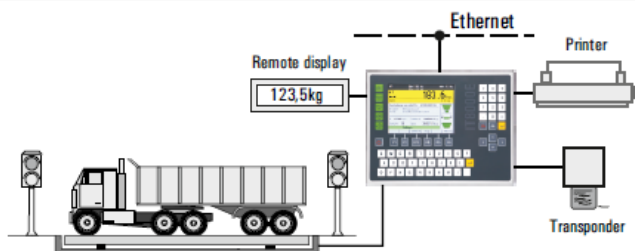
Sample scale in compliance with the Regulations For Prepackaged Goods
 Capturing and printout of statistical data for 250 products on 20 production lines, check by weight or volume, with entry of additional data.

BASIC/COUNT



Parts counting terminal
 Capturing of piece weight via reference scale, parts counting in weigh-in or weigh-out mode, bargraph display, configurable printout and data transmission, with article file, item counter, memory for totals, automatic taring, plus/minus check and many more functions.

TRUCK/ONLINE



W&M approved vehicle scale
 First, second and single-pass weighing, file management for address and product data, internal W&M approved data archive, configurable print format, switching / summing function for platforms, optional connection of transponder card readers, remote displays, traffic lights and full-size PC keyboard.

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Technical Specification Sheet

Weighing electronics

Connection to scales with analogue strain gauge load cells, entry impedance 43 0hm-3.3 k0hm (e.g. suitable for 8 x 350 0hm load cells), or via zener barriers, entry impedance 87.5 0hm-3.3 k0hm (e.g. suitable for 4 x 350 0hm load cells). W&M approved resolution up to 6000d at a max. of 80% preload, internal resolution 524000d, update rate selectable 50 – 800 updates/second, smallest load cell signal 0.33 μ V/e. Optional switching and summing function. Option: connection of scale platforms with digital force transducers. Option: up to 6 external scale interfaces via ADCBox.

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 load cell(s), option for the linearisation of the load curve with up to 6 linearisation points. Option to connect incline switch.


Electrical connection

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

Operating temperature

-10°C (+14°F) to +40°C (+104°F), 95% relative humidity, non-condensing.

Construction Options

Desk/wall version	Panel-mount version	WLAN	RTC WIN
 <ul style="list-style-type: none">Stainless steel housing, IP69K, NEMA 4XFor desk-top or wall-mount installationDimension W x H x D: 330 x 239 x 134 mm (13.0" x 9.4" x 5.3")	 <ul style="list-style-type: none">Stainless steel housing fascia plate protected to IP69K, NEMA 4XPanel-mount installationDimension 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")	 <ul style="list-style-type: none">Option: WLX module to connect to WLAN networks (802.11b/g)Secure encryption selectable	

Procon Engineering's policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification. E&OE.

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Display and keyboard

Bright, high-contrast 5.7" colour TFT display, 320 x 240 pixel with wide viewing angle, large weight display and 4 to 8 input lines. Programmable soft keys, alphanumeric keyboard, function keys for zero setting and taring, plus application-specific specific function keys, connection of optional full-size keyboard via USB cable.

Serial Interfaces

Up to 4 interfaces, selectable RS232, 20mA CL (passive), RS422 or RS485 for printer precision scales, remote displays, other peripheral devices and host communication.

Parallel and analogue I/Os

Up to 8 internal optoisolated inputs and outputs, 24 VDC, or external relay / transistor module (64 inputs, 64 outputs max.). Internal 15-bit analogue output, external module for up to 4 analogue inputs / outputs as option.

Fieldbus interface

Ethernet/IP, Profibus DP 12 Mbit, Profinet or Modbus TCP.

Ethernet interface

10/100 Mbit Ethernet interface with integrated web server, WLAN as option.

USB

USB 2.0 host interface with optional IP67 connector for PC keyboard, scanner or USB stick.

Security

Power-fail-safe storage of data, password protected, battery-backed real-time clock, remote diagnosis over Ethernet / Internet possible.

CPU / operating system

32-bit ARM processor, 266 MHz, 0.5 MB data memory, expandable, Linux based real-time multitasking operating system.

Free Programmability

Comprehensive PC-based programme development and test environment. Programming with RTC WIN in 'C' in compliance with WELMEC software guidelines. Complete software development and test/simulation on PCV.

Options

RTC WIN

IT8000E programming environment.

PC COM+

Active X component for the communication with PC programme.

Ex2/22 version

For installation in Ex zones 2 and 22.