IT4000E
W&M approved industrial weighing terminal
For weighing and filling applications

Stainless steel housing IP65
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.

Universal use
The W&M approved IT4000E 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 modular hardware and the powerful standard programs make the IT4000E the ideal choice for:
– Weigh and print applications
– Parts counting
– Vehicle weighing
– Checkweighing
– Filling
– Mobile data capture systems

Bright TFT color display
With wide viewing angle, large weight display and 4 to 8 input lines.

Simple and fast operation
Via integrated keyboard, function keys and soft keys, optional full-size PC keyboard (cable or Bluetooth).

Stationary or mobile use
With integrated 110 – 240 V AC power supply unit or via external 12/24 V DC battery.

Weighing electronics
Adjustable update rate with up to 800 updates per second. High noise immunity of min. 10 V/m against radio frequency interference. W&M approved resolution of up to 6000d with max. 80% preload.

Calibration is possible as single or multiplierange (e.g. 3 x 3000d) 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, desktop or panel-mount installation
– DC or AC power supply
– Connection of scales with analog or digital force transducers
– 10/100 Mbps Ethernet interface with integrated web server, WLAN as option
– Integrated USB 2.0 host interface for printer, scanner and USB stick
– Up to 2 serial interfaces, RS232, RS485, RS422 or 20 mA CL, for connection of remote displays, label printers, etc.

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

Simple integration
The Linux based operating system with the integrated web server provides the ideal functionality for the integration of the IT4000E into local area networks.

WLAN communication and remote access via internet are also possible.
IT4000E – Standard applications

**BASIC/COUNT – Weigh and print terminal**
Capturing of W&M approved weight from one or two scales (e.g. floor, bench, overhead track scale), entry of additional IDs via keyboard or cable/wireless scanner. Transmission of all data to host system over Ethernet or WLAN. W&M approved data archive in the IT4000E or on a PC.

**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.

**CONTROL – Setpoint controller**
Controlling setpoints at hopper or platform scales.

**ONLINE – Remote-controlled weighing terminal**
Remote control of all weighing, display and printing functions with PC commands via Ethernet. Weight data storage in internal Alibi memory.

**DOS – Filling controller**
*(only for non automatic scales)*
Fast and precise two-speed filling of solid materials with preact optimization. Files for product parameters and statistics for 10 products. Data backup and remote diagnosis possible with integrated web server over Ethernet.

**TRUCK/ONLINE – W&M approved vehicle scale**
First, second and single-pass weighing, entry of IDs, internal W&M approved data archive, configurable print format, data transmission over Ethernet. Optional connection of remote displays, traffic lights and full-size PC keyboard. In ONLINE mode full remote control possible from PC (with W&M approved data storage either in IT4000E or on PC).
IT4000E - Technical data

Construction and options

<table>
<thead>
<tr>
<th>Desk/wall version</th>
<th>Panel-mount version</th>
<th>WLAN</th>
<th>Remote diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Stainless steel housing, IP65</td>
<td>– Stainless steel housing</td>
<td>– Option: WLU module to connect to WLAN networks (802.11b/g)</td>
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<tr>
<td>– for desk-top or wall-mount installation or with optional column for floor mounting</td>
<td>– fascia plate protected to IP65</td>
<td>– Secure encryption selectable</td>
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<tr>
<td>– Dimension W x H x D: 330 x 293 x 134 mm</td>
<td>– Panel-mount installation</td>
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<tr>
<td></td>
<td>– Dimension W x H x D: 285 x 224 x 69 mm</td>
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<td></td>
<td>– Cutout in panel: 268 x 207 mm</td>
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Weighing electronics

For the connection of max. 16 analog load cells in 4- or 6-wire mode, W&M approved resolution of up to 6000 at a max. of 80% preload, internal resolution 524,000d, update rate selectable 50 – 800 updates per second, smallest load cell signal 0.33 µV/e. Optional connection of two scale bases via DUAL-ADM. Optional connection of digital scales.

Calibration

Cleartext operator prompting. Setup as single or multiple-range scale with 1, 2 or 3 ranges or as multi-interval scale. Calibration with test weights or by entry of rated output of load cell(s), option for the linearization of the load curve with up to 6 linearization points.

Electrical connection

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

Operating temperature

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

Display and keyboard

Bright, high-contrast 5.7” TFT color display, 320 x 240 pixel, with wide viewing angel, large weight display and 4 to 8 input lines. Soft keys, numeric keyboard with multiple key assignment for the entry of alphanumeric data, function keys for zero setting and taring, plus application-specific function keys, connection of optional full-size keyboard via USB (cable or Bluetooth).

Serial interfaces

Up to 2 interfaces, selectable RS232, 20 mA CL (passive), RS422 or RS485 for printer, precision scales, remote displays, etc.

Parallel and analog I/Os

4 internal opto-isolated inputs and outputs 24 V DC as option, or external relay/transistor module (4 I/Os max.). Optional 15-bit internal analog output.

Ethernet interface

10/100 BASE-T Ethernet interface with integrated web server, WLAN as option.

USB

USB 2.0 host interface with optional IP65 connector for PC keyboard, scanner or USB stick.

Security

Powerfail safe storage of data, password protection, battery-backed realtime clock, remote diagnosis possible over Ethernet/Internet.

CPU

32-bit ARM processor, 266 MHz, 0.5 MB data memory.

Options

PC COM+

Active X component for the communication with PC programs.

Relay module

External relay/transistor module with opto-isolated inputs and relay or transistor outputs.

Protective cover

Transparent cover to protect the unit from splash and dust.
Certifications
- Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950
- EC approval as non-automatic weighing instrument
- NTEP approval as non automatic weighing instrument (in preparation)
- ETL certified in accordance with UL 60950-1 and CSA C22.2 No. 60950-1
- EMI compliance with FCC Part 15
- Ukraine: Approval as non automatic weighing instrument

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