

# IT3000M



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

# IT3000M - Universal Industrial Weighing Terminal

## Stainless steel housing IP69K

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 display

with backlighting.

For indication of weight, 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.

## Power supply

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

## Universal Use

Suitable for difficult environmental conditions and locations with high hygienic standards, as in the food, pharmaceutical and chemical industry.

## High Operational Security

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

## Weighing Electronics

IT3000M connects to one or two scales with up to 16 loadcells and 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. Interface modules for digital loadcells are available as options.

## Weighing Program

Display of net, tare and gross weight. Operator prompting with entry of up to 20 additional IDs (eg order-No, customer-No, product-No, etc). Prompts and length of entries are configurable. Parts counting and totalizing is also possible. Weighing data can be stored in an internal W&M approved data archive (only for operating modes BASIC, TRUCK and ONLINE).

Plug-on modules are used to set IT3000M up for applications of varying complexity.

## Data Logging

via optional printer interface. The print layout for labels or forms is fully configurable. Printout of weights, totals, date, time, stored texts, entered IDs and calculated values.

## Data Transmission To PC

Transmission of all entered IDs, date, time and weight after each weighing cycle, data storage on the PC's harddisk.

## PC ONLINE Mode

via optional PC interface. Reading of weight, taring, zero setting and other functions can be remotely controlled from a PC. Weights can be stored in a W&M approved data archive in the IT3000M or on the PC's harddisk for verification. Data transmission is possible through serial interface or Ethernet LAN.

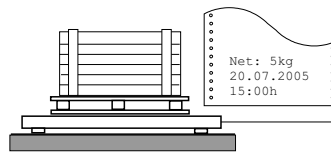
## Switching And Filling

With an optional input/output module two weight thresholds can be monitored, eg for max. or min. values. Start of weighing cycle and taring is possible from external switches. Alternatively the inputs and outputs can be used for a filling sequence with start/stop/interrupt and two-speed cut-off.

# IT3000M - Standard Programs

## BASIC

**W&M approved weighing terminal**  
Entry of IDs, eg order-No. and product code, taring, weighing and totalizing, W&M approved storage of weighing data in data archive, printout of ticket, data transmission to PC.



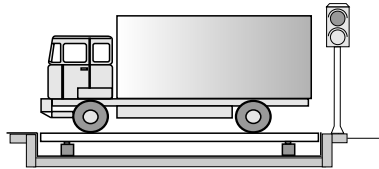
Desk-top or floor scale



**Connection to:**  
printer, PC or  
remote display

## TRUCK

**W&M approved truck scale terminal**  
First and second weighing or single-pass weighing with known tare weight, W&M approved data archive, printing of ticket, traffic light control, data transmission.



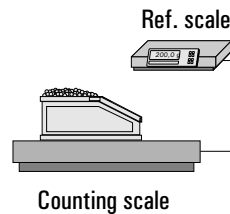
Truck scale



**Connection to:**  
printer, PC or  
remote display

## COUNT

**Parts counting terminal**  
Capturing of piece weight via reference scale, parts counting with optimization of piece weight, weigh-in or weigh-out mode, plus / minus display, item counter, memory for totals, printing of ticket, data transmission to PC.



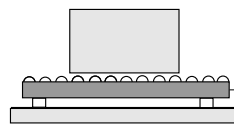
Counting scale



**Connection to:**  
printer or PC

## CHECK

**Checkweighing terminal**  
Weight check for incoming goods or filling applications, plus / minus check with output of min. / max. signals.



Conveyor scale



**Connection to:**  
printer or PC

## FILL

**Simple filling controller**  
Filling or discharging in fast and slow speed, with tare check and preact optimization. Memory for the filling parameters of 10 products. Inputs for external start / stop signals.



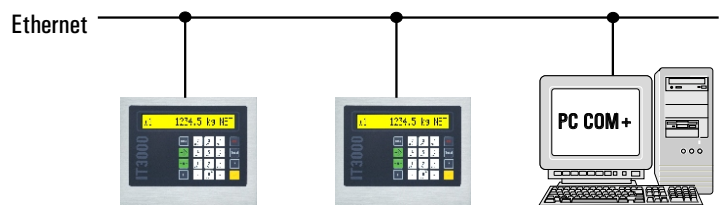
Bagging scale



**Connection to:**  
relay unit or PLC

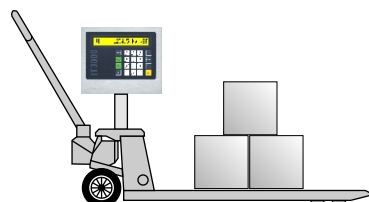
## ONLINE

**W&M approved ONLINE weighing terminal**  
Data transmission, taring or zero setting on request from PC. Connection to PC via serial line or Ethernet, W&M approved data archive in IT3000M or on PC.



## IT3000M

**Mobile weighing**  
Data capturing, weighing and ticket printing for mobile scales. W&M approved data archive.



**Connection to:**  
printer

# IT3000M - Technical Data

## Display and keyboard

**20-character alphanumeric back-lit LCD**, height of characters 14mm, for indication of weight and operator prompts and calibration.

**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.

## Weighing electronics

Integrated signal amplifier for the connection of one or two scales with up to 16 strain gauge loadcells (AC version) or up to 6 loadcells (DC version), W&M approved resolution of up to 6000d at 80% preload.

Internal resolution 524,000d, 50 updates per second, smallest loadcell signal 0.33µV/e.

Optional interface modules for digital loadcells (Mettler-Toledo TBrick, K..., MTX, Flintec RC3D, HBM C16i).

Internal event log for scale errors.

## Calibration

of scales with analog loadcells:

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. Transmission of all calibration data to/from PC with printout.

## Electrical connection

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

## Operating temperature

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

## Interfaces

**PC interface** selectable Ethernet, RS232 or RS422, configurable as data transmission after each weighing cycle or on request.

Remote diagnosis is possible via internet.

**Printer interface** selectable RS232 or RS422, for the connection of a form or ticket printer, printout configurable with PC tool **RTC CONFIGURATOR**.

**Interface for remote display**, selectable RS232 or RS422, several protocols for remote displays can be configured.

**2 digital inputs and 2 digital outputs**, optoisolated, 24VDC, outputs for setpoint monitoring or simple filling applications, inputs for start of weighing and taring or start/stop of filling.

### Analog output

0-20mA, 4-20mA, 0-10V, 2-10V, 32,000 divisions, for analog output of weight.

## Data archive

**Internal W&M approved data archive** for the storage of the last 120,000 weighings.

Display and printout for verification over selectable period of time.

**Powerfail-safe storage** of date and time.

Application memory:

**BASIC:** 10 selectable tare weights

**COUNT:** 10 reference weights

**TRUCK:** 100 first weights

**FILL:** 10 products

## Options

**Interface for two scale bases**  
**DUAL-ADM** to connect second scale.

**PC Software Tool PC COM+ | PC ARCHIVE**  
Recording of weighing data on PC's harddisk, providing long-time storage.

### RTC CONFIGURATOR

PC tool for the calibration of the scale and the configuration of operating sequence and print format.

### RTC Web Interface

for remote diagnostics via Ethernet/Internet.

### Ethernet interface cable

With RJ45 connector, 5m or 10m.

### Splash and dust cover

Transparent plastic cover to protect display and keyboard.

## Ex version

with ATEX approval for installation in hazardous area, zone 2 (gas) or zone 22 (dust) available as option (IT3000A, IT3000AP, IT3000E).

## Construction:

### Desk / wall version



- Stainless steel housing, IP69K
- Suitable for desk-top or wall-mount installation
- Dimensions WxHxD: 225x190x145mm

### Panel-mount version



- Stainless steel housing, fascia plate protected to IP65
- Panel-mount installation
- Dimensions WxHxD: 216x156x61mm
- Cut-out in panel: 199x139mm

**Directives:** 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC



EC approval as non-automatic weighing instrument

**Standards:** EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R61



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

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Sales and service

Subject to change without notice

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