

IT1000

Universal weighing terminal

For industrial use W&M approved

Stainless steel housing IP67

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

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

LCD display with back lighting

For indication of weight, multilingual operator prompts and calibration dialog.

Keyboard

With function keys for zero setting, taring, printing, totalizing and special functions.

Power supply

110 – 240 V AC (integrated) for stationary use or 12 – 30 V DC (integrated) for mobile use.

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

IT1000 connects to one scale with up to 16 load cells and provides a W&M approved resolution of up to 6000d with max. 80% preload. Calibration is possible as single or multiple-range (eg 3 x 3000d) and as single or multi-interval scale.

Weighing program

Display of net, tare and gross weight. Operator prompting for capturing of weight or piece count. Totalizing is also possible. Plug-on modules are used to set IT1000 up for applications of varying complexity:

Data logging

Via optional printer interface. The print layout for labels or forms is configurable. Printout of weights, totals, date, time and consecutive no.



Data transmission to PC

Via optional PC interface. Transmission of date, time, consecutive-no. and weight after each weighing cycle.

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 on the PC's harddisk for verification. Data transmission is possible through serial interface or Ethernet LAN via EtherPort.

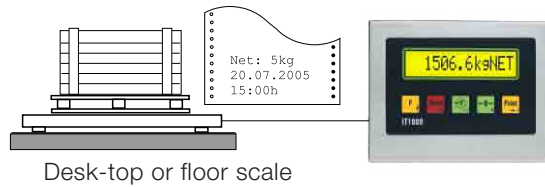
Switching and filling

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.

IT1000 – Standard programs

Basic – W&M approved weighing terminal

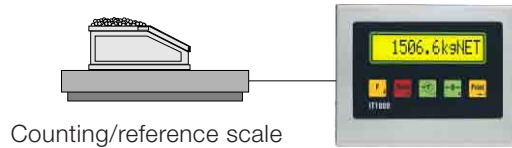
Taring, weighing and totalizing, printout of ticket.



Connection to:
printer, PC or
remote display

Count – Parts counting terminal

Weighing of reference parts and calculation of average piece weight, taring, weighing of unknown quantity, display and printout of piece count.



Connection to:
printer or PC

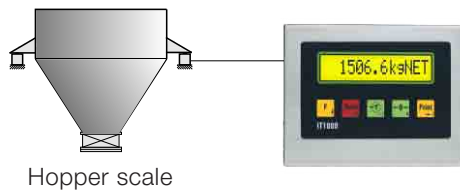
Online – W&M approved online weighing terminal

Transmission of weights on request from PC, via serial interface or Ethernet, storage of weights possible in approved data archive on PC harddisk.



IT1000 – Weighing terminal with setpoints

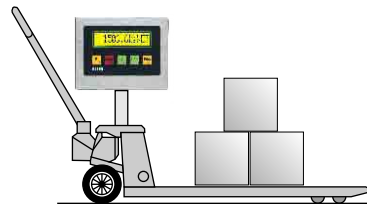
Min./max. weight monitoring for silo scales, output signals for: weight under min. and weight over max.



Connection to:
relay unit or PC

IT1000 – Mobile weighing

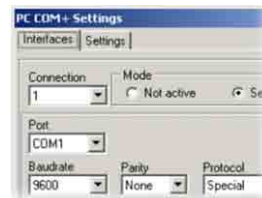
With data logging
IT1000 power supply 12 – 30 V DC.



Connection to:
Printer

PC COM+ – Software Tool (Option)

ActiveX component for the communication between Windows programs and IT1000 terminals in ONLINE mode. In combination with PC ARCHIVE option to store weights on PC harddisk in an approved data archive.



Runs under:
Windows 2000
Windows NT 4.0
Windows XP
Windows Vista

PC ReadIT – Software Tool (Option)

Reception of weighing data and storage in an ASCII file (*.txt) or database.
Supported databases: MS SQL, MS ACCESS, Oracle, Interbase SQL or ODBC.



Runs under:
Windows 2000
Windows NT 4.0
Windows XP
Windows Vista

IT1000 – Technical data

Construction

Compact stainless steel housing protected to IP67, for desk-top, wall-mount and column-mount installation or as panel-mount version, suitable for harsh environments, all cable connections through sealed cable glands.

Display and keyboard

13-character alphanumeric back-lit LCD, height of characters 14 mm. Indication of weight, operator prompts and calibration.

Sealed membrane keyboard with tactile feedback, with 5 keys: zero setting, taring, printing, totalizing and special functions.

Weighing electronics

Integrated signal amplifier for the connection of up to 16 strain gauge load cells, W&M approved resolution of up to 6000d at 80% preload. Internal resolution 524,000d, 50 updates per second, smallest load cell signal 0.33 $\mu\text{V/e}$.

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 linearization of the load curve. Clear operator prompts for all steps of calibration sequence.

Electrical connection

110 (-15%) to 240 (+10%) V AC, 50/60 Hz via integrated power supply, option: 12 – 30 V DC, power consumption max. 7.5 VA.

Operating temperature

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

Options

Realtime clock

For display, printout and data transmission of date and time.

PC Software Tool PC COM+ and PC ARCHIVE

Recording of weighing data on PC's harddisk, providing long-time storage.

PC Software Tool PC ReadIT

For the reception of weighing data and storage in an ASCII file or database.

Ethernet connection

Via external EtherPort gateway.

Desk-top or wall-mount installation



- Stainless steel housing, IP67
- Desk-top installation
- Dimensions W x H x D: 168 x 167 x 115 mm



- Stainless steel housing, IP67
- Wall-mount installation
- Dimensions W x H x D: 168 x 151 x 111 mm

Panel-mount version



- Stainless steel housing, fascia plate protected to IP67
- Panel-mount installation
- Dimensions W x H x D: 182 x 145 x 47 mm
- Cut-out in panel: 165 x 129 mm

Splash and dust cover

Transparent plastic cover to protect display and keyboard.

Interfaces

Socket for one of the following interface options:

PC interface

Selectable RS232, 20 mA CL, RS422 or RS485, configurable as data transmission after each weighing cycle or in request mode.

Printer interface

Selectable RS232, 20 mA CL or RS485, for the connection of a form or ticket printer, printout configurable via display and keyboard.

Interface for remote display

Selectable RS232, 20 mA CL or RS485, several protocols configurable.

2 digital inputs and 2 digital outputs

Optoisolated, 24 V DC, outputs for setpoint monitoring or simple filling applications, inputs for start of weighing and taring or start/stop of filling.

Analog output

0...20 mA, 4...20 mA, 0...10 V or 2...10 V, 15 Bit, 32,000 divisions, for analog output of weight.

Certifications

- Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC
- 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
- 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
- Russia: Approval as non-automatic weighing instrument
- Ukraine: Approval as non-automatic weighing instrument

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