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.

![Desk-top or floor scale](image)

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.

![Counting/reference scale](image)

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.

![Connection to: printer, PC or remote display](image)

#### IT1000 – Weighing terminal with setpoints
Min./max. weight monitoring for silo scales, output signals for: weight under min. and weight over max.

![Connection to: printer or PC](image)

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

![Connection to: Printer](image)

#### 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 µV/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

- 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

For more information please contact:

ABB Automation GmbH
Force Measurement
Oberhausener Str. 33
40472 Ratingen, Germany
Tel.: +49 2102 12-25 30 20
Fax: +49 2102 12-14 14
ForceMeasurement@de.abb.com

www.abb.com/pressductor

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