## IT9000 Universal weighing terminal For industrial use W&M approved

#### 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

Industrial design, modular concept, proven standard programs and free programmability make the IT9000 the ideal weighing terminal for:

- shipping and receiving scales
- batching and recipe weighing systems
- crane and silo scales
- filling controllers for drums or IBCs
- weighing installations with customized operating sequences.

#### VFD Dual-line display

2 x 20 characters, alphanumeric, 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. Application-specific functions directly accessible via function keys.

#### Power supply

115 - 240 V AC (integrated) for stationary use or 12 - 30 V DC (integrated) for mobile use.

#### Weighing electronics

For the connection of 1 or 2 scale platforms with a max. of 12 analog load cells the IT9000 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. Internal data archive for the storage of up to 450,000 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, also for use in hazardous area
- DC or AC power supply
- Connection of scales with analog or digital force transducers
- Up to 6 serial interfaces, RS232, RS485, RS422, 20 mA CL selectable
- Flexible I/O concept for up to 64 inputs and outputs
- Several fieldbus interfaces, eg Profibus DP, DeviceNet and Interbus
- Ethernet interface
- Analog I/Os, etc.

This ensures that the optimal system configuration can be chosen, for stationary as well as mobile use. Specific software modules support the connection of PCs, PLCs, scanners, transponder systems, printers, frequency inverters and wireless communication.

#### Free programmability

179000

W1

POSITION

1328 kg

Standard programs can be adapted to the requirements of specific applications. New programs can be designed in a very simple way on a PC with the RTG program development environment.

#### High operational security

Fast and error-free operation is ensured by a high-contrast alphanumeric VFD for the indication of weight, IDs and operator prompts in combination with an easy-to-use tactile keyboard for the entry of manual tare and additional data.

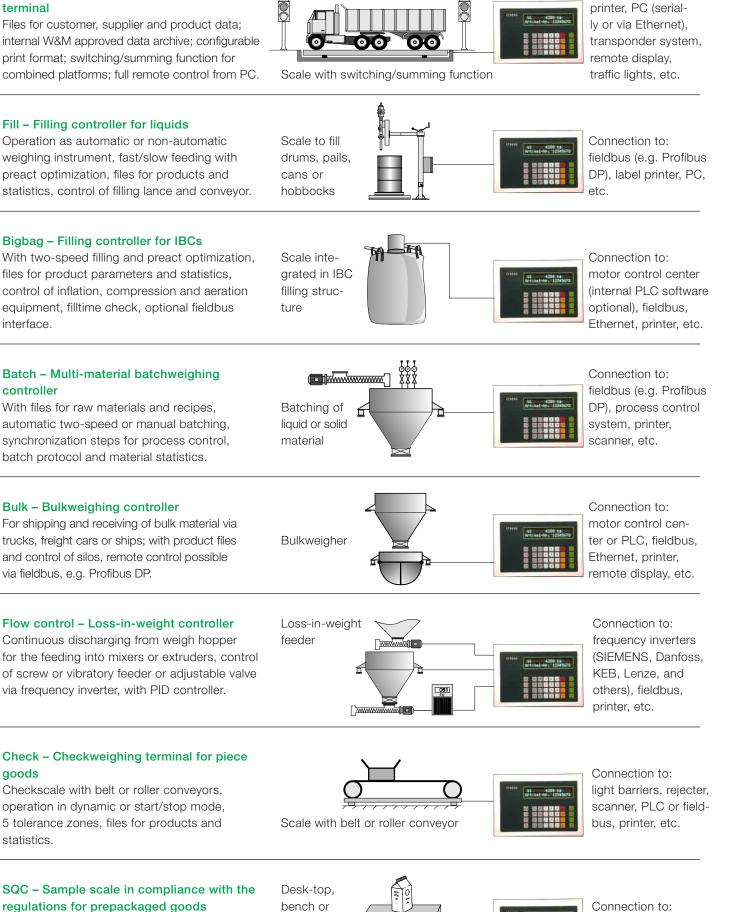


# IT9000 – Standard programs

Truck/Online - W&M approved truck scale

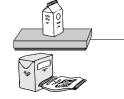
#### Detailed data sheets are available for the individual products

Connection to:



Capturing and printout of statistical data for 200 products on 20 production lines, check by weight or volume, with entry of additional IDs.

bench or floor scale





Connection to: printer, scanner, PC, etc.

## IT9000 - Technical data

#### Construction

#### Wall-mount/desk-top version



- Stainless steel housing, IP65
- Available for desk-top or wall-mount installation or with optional column for floor mounting
- Dimensions W x H x D: 300 x 210 x 150 mm



- Stainless steel housing, IP65
- Panel-mount installation with
- connection to S/S blackbox
- Dimensions W x H x D:
- 300 x 210 x 57 mm (operator unit) 290 x 230 x 65 mm (S/S blackbox)

# 19" rack-mount version



- 19" rack-mount housing, fascia plate protection to IP54
- Installation in switch cabinet (3U)
  Dimensions W x H x D:
- 483 x 132.5 x 150 mm

#### Ex version



- Intrinsically safe operator unit, IP65, for installation in Ex zone 1
- S/S blackbox in safe area
- Dimensions W x H x D:
- 270 x 210 x 160 mm (operator unit), 290 x 230 x 65 mm (S/S blackbox)

#### Weighing electronics

For the connection of 1 or 2 scale platforms with a max. of 16 analog load cells in 4- or 6-wire technique, W&M approved resolution 6000d, at a max. of 80% preload, internal resolution 524,000d, 50 updates per second, input signal 0.33  $\mu$ V/e.

Option: connection of scale platforms with digital force transducers.

Option: up to 6 external scale connections.

#### 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**

115 (–15%) to 240 (+10%) V AC, 50/60 Hz via integrated power supply, option: 12 – 30 V DC, power consumption max. 25 VA.

#### **Operating temperature**

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

#### Display and keyboard

**2 x 20-character alphanumeric VFD display**, height of characters 11 mm, 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. Optional connection of PC keyboard.

#### Serial interfaces

Up to 6 interfaces, selectable RS232, 20 mA CL, RS422 or RS485, for printer, host communication, precision scales and other peripheral devices, protocols for PC, printer and remote display configurable.

#### Parallel I/Os

**16** internal optoisolated inputs and outputs, 24 V DC, or external relay/transistor module (64 inputs, 64 outputs max.)

Fieldbus interface Profibus DP, alternatively Interbus, DeviceNet or Modbus (RTU).

#### **Analog interfaces**

Option to connect external module with 4 analog inputs/ outputs.

#### **Ethernet connection**

Via external EtherPort gateway.

#### Security

Powerfail safe storage of data, password protection, batterybacked realtime clock, remote diagnosis.

#### Free programmability

Comprehensive, PC-based RTG WIN program development and test environment including program generator (CASE tool), Pascal and PLC instruction lists.

#### Options

#### W&M approved data archive on PC

Storage of weighing data on the PC's harddisk, longterm archiving possible over several years.

#### **Backup & Restore**

Software to backup data on PC.

#### PC COM+

ActiveX component for PC connection.

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#### Certifications

- Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC
- Standards: EN 45501, OIML R76-1, EN 61000-6-2,
   EN 61000-6-3, NAMUR NE21, EN 60950, OIML R51,
   OIML R61, OIML R107
- EC-approval as non-automatic weighing instrument, MID-approval as AGFI, checkweigher, automatic catchweighing instrument, weigh labeler, weigh-price labeler, discontinuous totalizer
- Russia: Approval as non-automatic weighing instrument, AGFI, automatic catchweighing instrument, discontinuous totalizer
- Ukraine: Approval as non-automatic weighing instrument, AGFI, automatic catchweighing instrument, discontinuous totalizer

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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