

The freely programmable, trade-approved weighing terminal for industrial weighing.

HIGHLIGHTS

- **Stainless Steel Housing IP-65**
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 Dual-Line Display with Backlighting**
Up to 4 x 20 alphanumeric characters, multilingual operator prompts and calibration dialogue.
- **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**
110-240VAC or 12/24VDC
- **NMI Trade-Approved, Certificate No. S439**
Approved for up to 6,000 divisions per range.



FEATURES

UNIVERSAL USE

Industrial design, modular concept, proven standard programs and free programmability make the IT8000 the ideal weighing terminal for: shipping and receiving scales, batching and recipe weighing systems, filling controllers for drums or IBCs and for weighing installations with customized operating sequences.

WEIGHING ELECTRONICS

For the connection of 1 or 2 scale platforms with a maximum of 16 analog loadcells the IT8000 provides a trade-approved resolution of up to 6,000d with maximum 80% preload. Calibration is possible as single or multiple-range (for example, 3 x 3,000 division ranges) 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
- DC or AC power supply
- Connection of scales with analog or digital force transducers
- Up to 4 serial interfaces, RS232, RS485, RS422, 20mA 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

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.

OPERATIONAL SECURITY

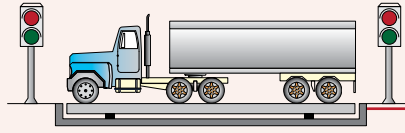
Fast and error-free operation is ensured by a high-contrast alphanumeric back-lit LCD for the indication of weight, IDs and operator prompts in combination with an easy-to-use tactile keyboard for the entry of manual tare and additional data.

STANDARD APPLICATIONS

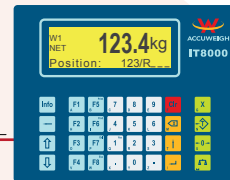
TRUCK SCALE

Trade-Approved Truck Scale Terminal

Files for customer, supplier and product data; internal trade-approved data archive; configurable print format; switching / summing function for combined platforms; full remote control from PC



Scale with switching/summing function

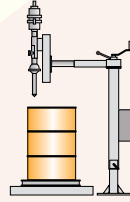


Connection to: Printer, PC (serially or via Ethernet), transponder system, remote display, traffic lights, etc.

FILL

Filling Controller for Liquids

Operation as automatic or nonautomatic weighing instrument, fast / slow feeding with preact optimisation, files for products and statistics, control of filling lance and conveyor



Scale to fill drums, pails, cans or hobbicks

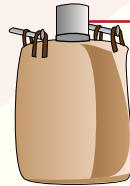


Connection to: Fieldbus (e.g. Profibus DP), label printer, PC, etc.

BIG BAG

Filling Controller for IBCs

With two-speed filling and preact optimisation, files for product parameters and statistics, control of inflation, compression and aeration equipment, filltime check, optional fieldbus interface



Scale integrated in IBC filling structure

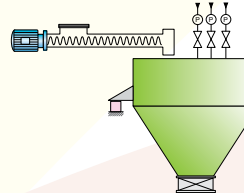


Connection to: Motor control centre (internal PLC software optional), fieldbus, Ethernet, printer, etc.

BATCH

Multi-Material Batch Weighing Controller

With files for raw materials and recipes, automatic two-speed or manual batching, synchronisation steps for process control, batch protocol and material statistics



Batching of liquid or solid material

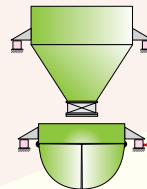


Connection to: Fieldbus (e.g. Profibus DP), process control system, printer, scanner, etc.

BULK

Bulk Weighing Controller

For shipping and receiving of bulk material via trucks, freight cars or ships; with product files and control of silos, remote control possible via fieldbus (e.g. Profibus DP)



Bulkweigher

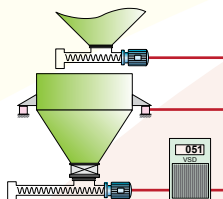


Connection to: Motor control center or PLC, fieldbus, Ethernet, printer, remote display, etc.

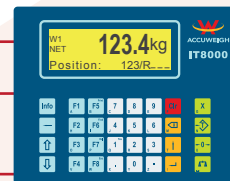
FLOW CONTROL

Loss-in-Weight Controller

Continuous discharging from weigh hopper for the feeding into mixers or extruders, control of screw or vibratory feeder or adjustable valve via frequency inverter, with PID controller



Loss-in-weight feeder

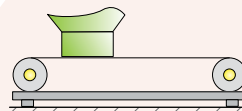


Connection to: Frequency inverters (SIEMENS, Danfoss, KEB, Lenze, and others), fieldbus, printer, etc.

CHECK

Check Weighing Terminal for Piece Goods

Check scale with belt or roller conveyors, operation in dynamic or start / stop mode, 5 tolerance zones, files for products and statistics



Scale with belt or roller conveyor

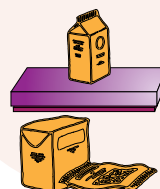


Connection to: Light barriers, rejecter, scanner, PLC or fieldbus, printer, etc.

QUALITY

Sample Scale as per FPVO (Finished Packaging Regulation)

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



Desk-top, bench or floor scale



Connection to: Printer, scanner, PC, etc.

TECHNICAL DATA

WEIGHING ELECTRONICS

For the connection of 1 or 2 scale platforms with a maximum of 16 analog loadcells in 4- or 6-wire technique, trade-approved resolution 6000 divisions, at a maximum of 80% preload, internal resolution 524,000 divisions, 50 updates per second, input signal 0.33 μ V/division. 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 loadcells, option for the linearisation of the load curve. Clear operator prompts for all steps of calibration sequence.

ELECTRICAL CONNECTION

110(-15%) to 240(+10%)VAC, 50/60Hz via integrated power supply, option: 12-30VDC, power consumption maximum 20VA.

OPERATING TEMPERATURE

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

DISPLAY AND KEYBOARD

4x20-character alphanumeric backlit LCD display, height of characters of weight indication 19mm, operator prompts and calibration via 20-character text display.

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

PARALLEL I/O

4 internal opto-isolated inputs and outputs, 24VDC, or external relay / transistor module (64 inputs, 64 outputs max.) External module for up to 4 analog inputs / outputs as option.

FIELDBUS INTERFACES

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

ETHERNET CONNECTION

Via internal Ethernet interface as option.

SECURITY

Powerfail safe storage of data, password protection, battery-backed 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

Trade-approved data archive on PC, storage of weighing data on the PC's hard-disk, long-term archiving possible over several years.

Backup & Restore

Software to backup data on PC.

PC COM+

ActiveX component for PC connection.

CONSTRUCTION

WALL/DESK-TOP VERSION



- Stainless Steel Housing, IP-65
- Available for Desk-Top or Wall-Mount Installation or with Optional Column for Floor Mounting
- Dimensions: 260mmW x 210mmH x 165mmD

PANEL MOUNT VERSION



- Stainless Steel Housing, Facia Plate Protected to IP-65
- Panel-Mount Installation
- Dimensions: 260mmW x 215mmH x 70mmD
- Cut-out in Panel: 243mm x 198mm

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