IT1

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

SysTec Systemtechnik und
Industrieautomation GmbH

IT1 - 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.

Color display

For indication of weight, multi-lingual operator prompts and calibration dialog. With backlighted, 11cm (4,3") display.

Keyboard

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

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 color display for the indication of weight, IDs and operator prompts.

Weighing Electronics

IT1 connects to one scale with up to 8 loadcells, 350 Ohm each and provides a W&M approved resolution of up to 10,000d with max. 80% preload.

Calibration is possible as single or multiple-range (eg 3x3000d) 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 IT1 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 an internal W&M approved data archive for verification. Data transmission is possible through serial interface or Ethernet LAN.

Switching And Filling

With optional input/output modules 3 weight thresholds can be monitored, eg for max. or min. values.
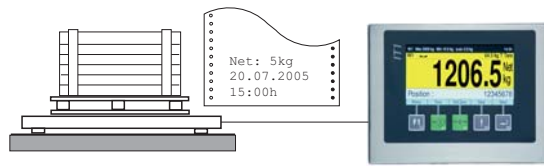Start of weighing cycle and taring is possible from external switches.

Alternatively the inputs and outputs can be used for a filling sequence with start/stop/interrupt and two-speed cut-off.

IT1 - Standard Programs

BASIC

W&M approved weighing terminal
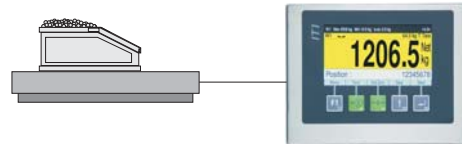Taring, weighing and totalizing,
printout of ticket.

Net: 5kg
20.07.2005
15:00h

1206.5

Desk-top or floor scale

Connection to:
printer, PC or
remote display

CHECK

Checkweighing terminal
Weight tolerance check with color change
and output signals for 'under tolerance',
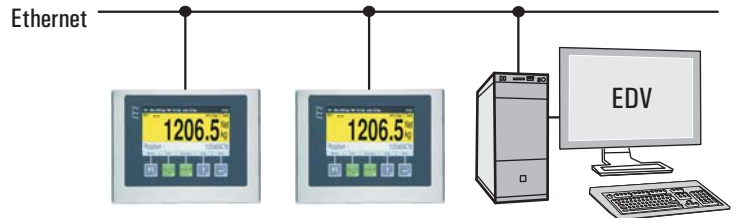'within tolerance' and 'over tolerance'.

1206.5

Connection to:
relay unit or PLC
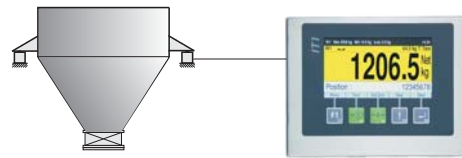
ONLINE

W&M approved ONLINE weighing terminal
Transmission of weights on request from PC,
via serial interface or Ethernet, internal storage
of 1,000,000 weights possible in approved data
archive.

Ethernet

1206.5   1206.5   EDV

IT1

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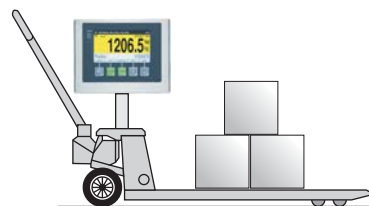and 'weight over max.'

1206.5

Hopper scale

Connection to:
relay unit or PLC

IT1

Mobile weighing
With data logging
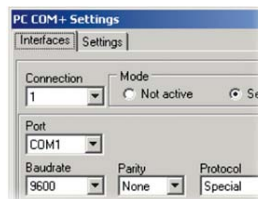(IT1 power supply 12 – 30VDC).

1206.5

Connection to:
printer

PC COM+

PC Software Tool PC *COM+* (Option)
ActiveX component for the communication
between Windows programs and IT1
terminals in ONLINE mode. In combination with
PC *ARCHIVE* option to store weights internally or on PC
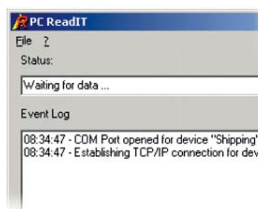harddisk in an approved data archive.

PC COM+ Settings

Interfaces | Settings

Connection — Mode
1   C Not active   C Serial
Port
COM1
Baudrate   Parity   Protocol
9600   None   Special

Runs under:
Windows 7...10

PC ReadIT

PC Software Tool PC *ReadIT* (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.

PC ReadIT
File ?
Status:
Waiting for data ...
Event Log
08:34:47 - COM Port opened for device "Shipping"
08:34:47 - Establishing TCP/IP connection for device

Runs under:
Windows 7...10

IT1 - Technical Data

Construction

Compact stainless steel housing protected to IP69K, 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

Bright 4,3" color screen for indication of weight and operator prompts and calibration.

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

Weighing electronics

Integrated signal amplifier for the connection of up to 8 strain gauge loadcells, 350 Ohm each, W&M approved resolution of up to 10,000d at 80% preload.
Internal resolution 524,000d, 50-800 updates per second, smallest loadcell signal 0.33mV/e.
Calibration 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.

Optional interface modules for digital loadcells Flintec RC3D or HBM C16i.

Electrical connection

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

Operating temperature

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

Interface options

One socket for serial or Ethernet interface and one socket for digital I/Os or analog output:

PC interface, selectable Ethernet, RS232, RS422 or RS485, configurable as 'data transmission after each weighing cycle' or 'in request mode'.

Printer interface, selectable USB, Ethernet, RS232 or RS485, for the connection of a form or ticket printer, printout configurable via display and keyboard.

Interface for remote display, selectable RS232, RS485 or Ethernet, several protocols configurable.

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.

3rd digital output
Optoisolated, 24VDC, for +/– check or setpoint monitoring.

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

Further options

Internal W&M approved data archive
To record the latest 1,000,000 weighing results.

Remote diagnostics
Via Ethernet-/Internet connection with integrated web server.

PC Software Tool PC *COM+* | PC *ARCHIVE*
For communication with customer's PC-Software, with optional W&M approved recording of weighing data on a PC harddisk.

PC Software Tool PC *ReadIT*
For the reception of weighing data and storage in an ASCII file or database.

Splash and dust cover
Transparent plastic cover to protect display and keyboard.

Construction:

Desk-top or wall-mount installation	Panel-mount version
• Stainless steel housing, IP69K • Desk-top installation • Dimensions WxHxD: 168x167x115mm	• Stainless steel housing, IP69K • Wall-mount installation • Dimensions WxHxD: 168x151x111mm	• Stainless steel housing, fascia plate protected to IP69K • Panel-mount installation • Dimensions WxHxD: 182x145x47mm • Cut-out in panel: 165x129mm