IT3 Ex2/22

SysTec
Discover smart weighing

Universal Weighing Terminal, W&M Approved, for Industrial Use for Installation in Hazardous Area Zones 2 and 22

IT3 Ex2/22 – Technical Data

ATEX approval

⟨Ex⟩ II 3G Ex e ic IIC T4 Gc (gas)
II 3D Ex ic tc IIIC T135°C Dc (dust)

Display and keyboard

Bright 5" (13 cm) color screen 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.

Weighing electronics

Connection to scales with analog strain gauge load cells, entry impedance 43 Ohm–3.3 kOhm (e.g. suitable for 8 x 350 Ohm load cells), or via zener barriers, entry impedance 87.5 Ohm–3.3 kOhm (e.g. suitable for 4 x 350 Ohm load cells), W&M approved resolution up to 10,000 d. Internal resolution 524,000 d, update rate 50–800/s, smallest load cell signal 0.33 µV/e. Optional interface modules for digital load cells (Flintec RC3D, HBM C16i, Mettler-Toledo TBrick, K...). Internal event log for scale errors.

Calibration

Of scales with analog load cells:
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. Transmission of all calibration data to/from PC with printout.

Electrical connection

110–240 V AC, 50–60 Hz or 12–24 V DC via integrated power supply unit, or 12–24 V DC for power supply via external battery.

Operating temperature

–10 °C (+14 °F) to +40 °C (+104 °F), max. 95 % relative humidity, non-condensing.

Interface options

One SIM socket for:

Serial interface to connect a PC, printer, remote display or reference scale via RS232 or RS485 4-wire. Printout configurable with PC tool IT *CONFIGURATOR*.

Ethernet module to connect to TCP/IP networks or a network printer. Remote diagnosis is possible via internet.

USB module to connect a USB printer or keyboard.

DUAL-ISM to connect single- or dual-channel incremental sensors (pulse wheel).

Additional digital output
Optoisolated, 24 V DC, for +/– check or setpoint monitoring.

One extension socket for:

SIM-ETH3 module providing a second SIM socket.

Fieldbus module for Profinet, Profibus DP or Ethernet/IP.

One socket for digital inputs/outputs or analog output:

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.

Data storage

Power-fail-safe storage of date and time.
Application memory:
BASIC: 9 selectable tare weights,
COUNT: 9 reference weights,
TRUCK: 99 first weights,
FILL: 9 products.

Further options

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

Interface for two scale bases DADM
To connect two scales with analog strain gauge load cells.

PC *ScaleView*
PC software for the display of weighing data and scale status information.

PC *COM+* / PC *ARCHIVE*
PC software for W&M approved recording of weighing data on a PC hard disk.

IT *CONFIGURATOR*
PC software for calibration, backup, configuration of user prompts, and editing of print formats.

RTC *Web Interface*
For remote diagnostics via Ethernet/Internet.

Ethernet interface cable
With RJ45 connector, 5 m (20") or 10 m (40").

Ethernet connector
M12 connector (Ex) for the assembly of customized connection cables for hazardous area.

Construction:

Desk / wall version	Panel-mount version
• Stainless steel housing, IP65, NEMA 4X	• Stainless steel housing, fascia plate protected to IP65, NEMA 4X
• Suitable for desk-top or wall-mount installation	• Dimensions W x H x D: 241 x 180 x 47 mm (9.5" x 7.1" x 1.9")
• Dimensions W x H x D: 278 x 214 x 124 mm (10.9" x 8.4" x 4.9")	• Cut-out in panel: 223 x 162 mm (8.8" x 6.38")

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Sales and service

Subject to change without notice

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