



W&M Approved Industrial Weighing Terminal for Challenging Weighing and Filling Applications

Weighing electronics

For the connection of up to 10 scale bases with an input impedance of 43 Ohm—3.3 kOhm (suitable e.g. for 8 x 350 Ohm load cells), W&M approved resolution of 10,000 d (with a max. preload of 80 %). Internal resolution 524,000 d. Update rate selectable 50–1,000 updates / sec., sensitivity 0.2 mV/e.

Alternative connection via zener barriers with an input impedance of 87.5 Ohm–3.3 kOhm (suitable e.g. for 4 x 350 Ohm load cells), legal-for-trade resolution 6,000 d (with a max. preload of 80 %), sensitivity 0.33 mV/e.

Optional switching and summing function. Optional connection of scale platforms with digital force transducers.

Calibration

Clear-text operator prompting. Setup as single- or multiple-range scale with 1, 2 or 3 ranges or as multi-interval scale. Calibration with test weights or by entry of rated load cell signal. Option for the linearization with up to 6 linearization points, option to connect an incline switch.

Power supply

Option: 100–240 V AC, 50–60 Hz via the integrated power supply unit or 12–24 V DC. Power consumption AC max. 110 VA. Power consumption DC max. 60 W.

Operating temperature

–10 °C to +40 °C, at 95 % max. relative humidity without condensation.

Construction/options:

Display and keyboard

Bright, high-contrast 10.4" TFT color display, 1,024 x 768 pixels, with wide viewing angle and large weight display. Touchpanel operation. Optional connection of a standard PC keyboard via USB connector.

Serial interfaces

Up to 4, selectable RS232, RS485, RS422, or 20mA CL (active/passive), for the connection of label printers, precision scales, remote displays, transponder readers, scanners, etc.

Digital/analog interfaces

Up to 36 internal opto-isolated inputs and outputs, 24 V DC, or external relay/transistor modules (up to 64 I/Os). Internal 15-bit analog output. Internal 15-bit analog input. Option: external module for 4 analog inputs/outputs.

Fieldbus interfaces

Profibus DP 12 MBit/s, Profinet, Ethernet/IP or Modbus® TCP.

Ethernet connection

Ethernet interface with 10/100 Mbit/s, with integrated web server. Option for up to 6 additional Ethernet interfaces for the connection to physically, locally separated networks.

USB

2 USB ports (1 external, 1 selectable for internal or external connection), option for up to 6 further ports. USB 2.0 host interface with optional IP20

socket (IP65/IP69K with cap screwed on) to connect PC keyboard, scanner, USB stick, etc.

Security

Power-fail-safe storage of data, password protection, battery-backed real-time clock. Remote diagnosis possible via Ethernet/Internet.

CPU / operating system

32-bit ARM processor, 2 x 800 MHz, 2 GB data storage, expandable via USB. Linux-based real-time multitasking operating system.

Free programmability

Comprehensive, PC-based program-development and test environment. Free programming with RTC WIN in 'C' in compliance with WELMEC software guidelines. Complete software development and test / simulation possible on PC.

Options

RTC WIN

IT9 programming environment

PC COM+

ActiveX component for the communication with PC programs

OPC UA Server

Non-proprietary interface according to OPC UA Weighing Technology

MOT

Open network protocol for machine-to-machine communication (M2M)

Desk/wall version



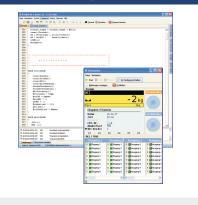
- Stainless steel housing, IP65 / IP69K
- Suitable for desk-top or wall-mount installation
- Dimensions W x H x D: 345 x 274 x 124 mm (13.6" x 10.8" x 4.9")

Panel-mount version



- Stainless steel housing, fascia plate protected to IP65 / IP69K
- Panel-mount installation
- Dimensions W x H x D: 306 x 259 x 68 mm (12.0" x 10.2" x 2.7")
- Cutout in panel: 288 x 241 mm (11.3" x 9.5")

RTC WIN



Directives: 2014/30/EU, 2014/31/EU,

2014/35/EU

Standards: EN 45501, OIML R 76-1,

EN 61000-6-2, EN 61000-6-4, NAMUR NE21, EN 62368-1 $: \in$

EU Type-Examination Certificate as non-automatic weighing instrument



ETL certified in accordance with UL 62368-1 and CSA C22.2 No. 62368-1



EMI compliance with FCC Part 15



Other certificates on demand

EtherNet/IP*

Modbus®

PROFU® DNETO



Sales and service

SysTec Systemtechnik und Industrieautomation GmbH Tel. +49 (0) 2238 - 9663-0 – www.systecnet.com

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