



Weighing Terminals

Weighing terminals

Advanced **weighing terminals** are constructional components of industrial multifunctional load cell scales, they connect with **RADWAG** high resolution platforms and weighing modules.



It is possible to design multiplatform weighing systems based on selected terminals.

These device also enable integration with automation systems of the production lines.

Product range regarding weighing terminals covers various solutions when it comes to both mechanical design and use. Majority of the models combine features of a weighing instrument and an advanced industrial PC equipped with software offering many applications designed to enable weighing, dosing, formulations, etc., and facilitating, thanks to programming components, communication with user weighing applications.



PUE CY10

Weighing Terminal

The **PUE CY10 terminal** is the head of the CY10 series precision balances and 1 load cell platform scales. It features a durable housing with an **IP 43** ingress protection and numerous communication interfaces, including **Ethernet, Hotspot** and **Wi-Fi®**.



- IP 43 ingress protection
- 10" touchscreen
- Compliance with GLP
- Alibi Memory
- Extra features including face recognition, voice commands and Ambient Light
- Compatibility with RFID tags
- Support for "kg" unit
- Tare mode expanded to include
- End-product issue mode
- Labeling scale functionality

Labeling Scale Functionality

The **PUE CY10 terminal** has been extended with features specific to labeling scales, as it:

- Cooperates with the computer program **Label Editor R02**
- Is compatible with **label printers**
- Supports single labels, bulk labels and bulk from bulk labels
- Allows import/export of label designs using a pendrive
- Enables you to assign labels to goods or customers and print a global label.

Software for Special Tasks

The **PUE CY10 terminal software** has a set of innovative features that make daily work with the scale easier:

- Cooperation with up to 2 weighing platforms
- Updating statistical data separately for each commodity or globally
- Tare mode expanded to include Dispenser mode capability.

Modbus TCP/IP

is one of the most popular communication protocols in industrial automation. Implementing it in the **5Y vbalances** and **CY10 scales** makes the devices of this series friendly to automation integrators.

A balance or scale in a Modbus system is a slave device and performs tasks specified by the master device which is most often a PLC. **Protocol Modbus TCP/IP** in the 5Y balances and C10 scales enables, among other things, **the realization of mass readout, zeroing and tare functions of the device, as well as tare settings and MIN and MAX thresholds.**

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PUE H315

Weighing Terminal

The terminal is intended to be a component of a vast range of industry scales – from small table-top scales, through platform, ramp, track and pallet scales, to livestock scales. It is equipped with a stainless steel housing of high ingress protection, IP 66/IP 67/IP 69. By standard the terminal features RS 232 and USB interfaces.

- IP 66/ 67/ 69 ingress protection
- Housing made of AISI 304 stainless steel
- Backlit LCD
- Battery as an optional power source
- Plus / minus control
- Percent weighing
- Complex tare functions
- Compliance with GLP



It has been with us for years, and will stay for a long time to come

The LCD display has accompanied us for long years. During this time it has proven its reliability. It guarantees the readability of the result from many angles and is energy efficient.

Not just weighing

The terminal has been equipped with numerous working modes: Parts Counting, +/- Control, Percent weighing, Totalizing, Peak Hold and Animal Weighing. Additionally, it enables defining of simple printouts in accordance with GLP procedures, and features weighing and ALIBI memory with export option, real time clock, and extensive tare functions.

Work as you like

A brand new design of the housing makes the terminal a compact device, which positively influences the comfort of operation. Another useful facility is the multifunctionally, this feature allows to operate the device when placed on a table or mounted to a post. In either case, tilt regulation is available. The said tilt regulation is also a convenience offered by a wall-mounting bracket. Besides, high ingress protection rate, which is the basic characteristic of the terminal, means failure free operation under harsh industrial conditions.

Communication Interfaces and Exchange of Information with External Devices

Possibility to furnish the terminal with additional interfaces, makes its adaptation to customer requirements easy. This facilitates especially communication with stack lights and external buttons controlling scale functions (zeroing, taring and printout), and integration with unsophisticated automation systems. The terminal allows for communication with external devices such as receipt printer, additional display, computer or USB flash drive.

PUE C315

Weighing Terminal



- IP 43 ingress protection
- Integrated battery
- Automatic tare, tare memory
- Counting parts of the same mass
- +/- control against reference sample mass
- Percent weighing carried out against reference sample mass
- Averaging the weighing result
- Time-defined finish mode
- Totalizing

Versatility of Use

Various possibilities of fastening of the **PUE C315** terminal to the weighing platform enable selecting appropriate solution for different places of operation. The terminal can be mounted next to the platform, on a post or using cable.

Terminal for Industry

The **PUE C315** terminal is intended for fast and precise presentation of mass measurement result. Taring available for the whole weighing range allows to swiftly and precisely determine net mass of weighed loads. An ABS plastic housing ensures durability and lightness of the construction.

ALIBI Memory

Internal ALIBI memory guarantees safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.

Internal Battery

In addition to power supply from the mains, **PUE C315** terminal is equipped with internal battery that enables several hours long mobile operation.

Uncomplicated Operation and Clear Presentation of Indications

A clear 6-digit LCD display with backlight and pictograms provides clearly visible measurement result. Easy operation enables fast and reliable measurements to be carried out even by an inexperienced operator.

R Terminal

R terminal (WDM-8-1) is an advanced operator interface that works perfectly with MAS.M, MPS.M and MPS.T Weighing Modules.



The device plays a dual role: not only as a precise mass display, but also as a tool for comprehensive management of weighing settings. It enables parameters to be configured, viewed, edited and saved quickly and easily. Thanks to its intuitive operation, it significantly facilitates daily work and allows you to make full use of the capabilities of the connected modules.

- IP 66 ingress protection
- Housing made of stainless steel
- Backlit LCD 5,3"
- Battery as an optional power source
- ALIBI Memory

R Terminal – a Partner in Every Situation

- **Clear 5.3" LCD Screen** – Everything in Sight.
- **1 Metre Cable** – Convenient and Tidy Connection (DB-9 connector).
- **Stainless steel Housing** – Robustness in an Elegant Design.
- **Membrane Keyboard** – Reliable and Easy to Maintain.
- **IP66 Resistance** – Terminal Ready for Tough Conditions.

The R terminal combines innovative technology with a practical design to support the user every day. It is designed to work hand in hand with you, efficiently, comfortably and seamlessly. Find out how much of a difference it can make to your daily work.

Reliable Equipment for Professionals

R terminal is an advanced operator interface that works perfectly with **MAS.M, MPS.M and MPS.T Weighing Modules**. The device plays a dual role: not only as a precise mass display, but also as a tool for comprehensive management of weighing settings. It enables parameters to be configured, viewed, edited and saved quickly and easily. Thanks to its intuitive operation, it significantly facilitates daily work and allows you to make full use of the capabilities of the connected modules.



PUE C32

Weighing Terminal



- IP 43 ingress protection
- 5" colour display
- Optional battery
- Compliance with GLP
- ALIBI Memory
- Counting parts of the same mass
- Percent weighing carried out against reference sample mass
- Statistics
- Labelling

The Housing and the Display

The housing is made of durable ABS plastic. The terminal has been equipped with **5" colour display** ensuring perfect readability, and 22-key membrane keypad featuring programmable function keys. The terminal offers customized menu, with this all your personal needs can be met which makes operation even more intuitive and simple.

Communication Interfaces

Standard terminal has been equipped with RS 232, USB-A, USB-B, 4×IN, 4×OUT and Ethernet interfaces which facilitate both cooperation with peripherals such as printer or computer and data exchange using USB drives. The terminal connects with wireless networks due to a Wireless Connection module, which comes standard.

ALIBI Memory

ALIBI memory provides data safety and allows saving up to 500 thousand weighing records. This guarantees continuous storing of data over a long period of time.

Battery

Use of the optional battery enables the **PUE C32 terminal** to operate even when there is either no or unstable power supply.

Data Management

PUE C32 information system is based on **7 databases**, each of different maximum record quantity:

Products - 15 000 | Operators - 500 | Formulations - 500 | Packaging - 500
Customers - 500 | Labels - 500 | Universal variables - 100

Databases can be imported and exported via USB flash drives.

PUE 7.1

Weighing Terminal



The PUE 7.1 terminal is a constructional component of industrial load cell scales.

■ IP 43 ingress protection

■ 5.7" touch screen

■ Vast range of functions including:

Statistics, Dosing, Formulations, Labelling, Differential weighing

Ergonomics and Comfort of Operation

It is equipped with 5.7" TFT display featuring a touch panel and a membrane keypad.

The device offers two proximity sensors which can be programmed using the menu.

It can connect with maximum 2 weighing platforms, a barcode scanner, a printer, a labeller, RFID reader and PC equipment (mouse, keyboard, USB flash drive).

Standard **PUE 7.1** terminal communicates with 1 weighing platform, and is provided with an extended communication interface offering **2×USB, 2×RS 232, Ethernet, 4inputs/4outputs (digital), Wi-Fi®**.

It is possible to expand the **PUE 7.1** terminal with 1 extra platform, this is done by installation of **an additional platform module, DP-6**.

Caution: in case of a terminal supporting 2 weighing platforms, only cable version is available (R version does not exist).

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PUE HX5.EX

Weighing Terminal



PUE HX5.EX terminal is a constructional component of industrial multifunctional load cell scales. It is the most modern **RADWAG** solution to be used in areas endangered with explosive atmosphere. The **HX5.EX** is compliant with **ATEX** directive regulations. The terminal is intended for operation in environment filled with explosive gases and dust, and can be placed in zones: 1/21 and 2/22. Standard version of the terminal is equipped with 2 serial intrinsically safe RS232 communication interfaces, and with one intrinsically safe RS485 interface. They facilitate communication with equipment predetermined for use in hazardous areas. Possibility to add digital inputs/outputs expands the range of instruments compatible with the terminal by robotic elements compliant with **ATEX** directive. For more demanding customers, **RADWAG** has developed IM01.EX module, installed in the safe area, which extends the available connector range by Ethernet, USB, 4-20mA/0-10V analog outputs, Profibus DP and additional digital inputs/outputs. This enables communication between the terminal and external devices such as barcode scanners, printers, external displays, control buttons, light signalling towers, other controlling/signalling devices, systems for automatic process control and superior IT systems.

Mechanical Design

The housing, made of AISI 304 stainless steel, ensures high ingress protection, IP66 / IP68 (up to 1.5 m immersion). The terminal features 5" colour LCD, covered with polycarbonate protecting it against shocks, and a membrane keypad. Ease of operation, clear menu and intuitive information arrangement on the display guarantee comfort of operation. Hermetic intrinsically safe interface connectors are located on the back side of the housing. Stable bracket enables mounting the terminal either on a flat horizontal surface or on the wall. The device tilt can be easily adjusted.

■ IP 66 / 68 ingress protection

■ Stainless steel housing

■ ATEX certified

■ 5" colour display

■ Compliance with GLP

■ ALIBI Memory

■ Counting parts of the same mass

■ Percent weighing carried out against reference sample mass

■ Statistics

■ Labelling

Multifunctional Software

Terminal software facilitates processes such as weighing, parts counting, dosing, and percent weighing. Terminal's information system is based on databases (users, products, weighings, packaging, formulations, customers) and ALIBI memory which guarantees stored data safety. The interfaces enable communication between the terminal and the accessories intended for operation in the hazardous and non-hazardous areas. Accessories: barcode scanners, printers, external displays, control buttons, light signalling towers and other controlling/signalling devices. The terminal can communicate with systems for automatic process control and superior IT systems.

PUE HX7

Weighing Terminal



PUE HX7 terminal is a constructional component of industrial multifunctional load cell scales, equipped with either one or numerous load cells. It is based on the latest solutions and an advanced computing platform. Versatile terminal's software will satisfy even the most demanding users and system integrators. The basic version of the terminal features a vast range of communication interfaces, which range can additionally be expanded.

Housing

■ IP 66 / 67 ingress protection

■ Stainless steel housing

■ 7" colour display

■ Bar graph presenting current mass

■ Dosing

■ ALIBI Memory

■ Parts counting

■ Formulations

■ Percent weighing

The housing, made of AISI 304 stainless steel, ensures high ingress protection, **IP66 / IP67**. The terminal is equipped with **7" colour LCD display** and membrane keyboard. Ease of operation, clear menu and intuitive information arrangement on the display guarantee comfort of operation. Hermetic communication interface connectors are located on the back side of the housing. Stable mount bracket enables to mount the terminal either on a flat horizontal surface or on the wall. The device tilt can be easily adjusted.

Multifunctional Software

Terminal software facilitates processes such as weighing, parts counting, dosing, labelling, formulations and percent weighing. Terminal's information system is based on databases (such as: users, products, weighings, packaging, formulations, customers) and ALIBI memory which guarantees stored data safety. When developing the software, special attention was given to the functionality and ergonomics. This resulted in increased comfort of terminal operation.

Communication Interfaces

The terminal is equipped with RS 322, RS 485, USB, Ethernet, digital inputs/outputs and analog output. This enables connection with external devices such as barcode scanners, printers, external displays, control buttons, light signalling towers, other controlling/signalling devices, systems for automatic process control and superior IT systems. The connection is possible due to the implemented and complex character-based communication protocol. In the future, the interfaces will be extended with Profibus and Profinet. Additionally, Modbus RTU and TCP protocols will be implemented.

Optional Power Source from Internal Battery

Use of the optional battery enables the **PUE HX7 terminal** to operate even when there is either no or unstable power supply. This improves the security of acquired data and improves comfort of operation.

PUE HY10

Weighing Terminal



HY10 terminal is a constructional component of industrial multifunctional load cell scales, it connects with RADWAG high resolution platforms and weighing modules.

Housing

High IP rating and stainless steel facilitate operation of the terminal in challenging working conditions (high humidity, dustiness). With these two characteristics the terminal meets high hygiene standards for food and pharmaceutical industries.

Display

10.1" colour display of 1024x600 pixel resolution with a capacitive touchscreen

Remote Configuration

It is possible to set the **HY10 terminal** parameters remotely, this is done using '**Parameters Editor 2.0**' software. The parameters can also be set via the terminal. Use of '**Parameters Editor 2.0**' software allows repeatable parameter setup. Once you set all the parameters for a particular terminal, save them to a file in order to be able to copy them to terminals operating at twinlike workstations. The set parameter configuration can be transferred either using a USB flash drive or a network. '**Parameters Editor 2.0**' offers remote desktop option. With this solution we can carry out your terminal's setup even if your company is located miles away from the service.

Screen Editor Multi-platform Operation

Customized screen layout, extensive functionality. **PUE HY10** terminal offers screen layout customization. You can display only those components that you find indispensable for your work. You can make decision not only on what to add to your screen but also on the size of particular components. Self-designed screen layout makes your work easier, with this weighing is no longer a time-consuming process.

■ IP 66 / 67 / 69 ingress protection

■ Stainless steel housing

■ 10.1" touch screen

■ Remote configuration

■ Vast range of functions including:
Dosing, Labelling, Formulations, Statistics,
ALIBI Memory

Labelling

Ability to design labels for each terminal-performed process. Labelling function, implemented into firmware, enables marking products with weight labels. This makes product identification fast and easy. Using '**Label Editor**', a dedicated software, you can design label which upon being sent to the scale is available for the operator in label database. The label can provide data such as date, batch number, mass, pictogram, Ean-13 code with weight value and product code.

PUE 5

Weighing Terminal



The terminals are intended to designing scales with maximum resolution of 6000 e. **PUE 5 series**, similarly to the basic model, are enclosed in a stainless steel housing which allows for reaching the highest IP rating, i.e. IP 66. The terminals come standard with interfaces: **2 × RS232, 1 × RS485, 1 x Ethernet, 4 x USB 2.0**. **PUE 5 series** can be extended by additional 3 weighing modules for simultaneous operation of maximum 4 weighing platforms.

Intended Use

■ IP 66 / 67 / 69 ingress protection

■ Stainless steel housing

■ 15.6" or 19" touch screen

■ Full process control

■ Vast range of functions including:
**Dosing, Labelling, Formulations,
Statistics**

The terminal **PUE 5 series** is a multifunctional weighing device. It combines the best features of a PC computer and a scale. **The PUE 5** operates on basis of OS Windows, creating the best option for configuring the device to individual customer requirements through installing corresponding application.

If applied with dosing or formula making systems, the **PUE 5** allows for operation with multiple weighing platforms, and simultaneous dosing with full process control. A dosing or formula making system that is configured on basis of the **terminal PUE 5 series** does not require an additional PC computer.

Database editing is possible from the level of **PUE 5** touch screen display or an optional PC keyboard.

Software

As standard, the terminal is equipped with the **PUE 5** Core application, which enables mass reading, taring and zeroing as well as calibration and balance parameter configuration. In addition, the application cooperates with the E2R Weighing Records module within the E2R System software.

The implementation of a commonly used Windows operating system and RADWAG-provided software components ensures flexibility and integration with various IT systems. Thanks to the built-in personal computer, the terminal works well in both network and single-station applications.

Terminal Type:

PUE 5.15R – resistive touch screen technology. **Protection class IP66**. High resistance to moisture and dust. In comparison to remaining models, limited brightness and lower resistance to shocks and scratches. Possibility of operation using gloves preventing scratches (latex, material).

Model	Product code	Display	Protection class	Housing	OIML Class
PUE CY10 WEIGHING TERMINAL					
PUE CY10	WX-008-0217	10" graphic colour touchscreen	IP 43	ABS + aluminum	III
PUE H315 WEIGHING TERMINAL					
PUE H315	WX-008-0191	4.3" LCD (backlit)	IP 66 / 67 / 69	Stainless steel	III
PUE C315 WEIGHING TERMINAL					
PUE 315	WX-008-0150	4.3" LCD (backlit)	IP 43	ABS plastic	III
R TERMINAL					
R Terminal for MAS.M, MPS.M, MPS.T Modules (WDM-8-1)	WX-008-0231	5,3" LCD (backlit)	IP 66	Stainless steel	-
R Terminal for MAS Modules (WDM-8-2)	WX-008-0232	5,3" LCD (backlit)	IP 66	Stainless steel	-
R Terminal for MAS.1 Modules (WDM-8-3)	WX-008-0233	5,3" LCD (backlit)	IP 66	Stainless steel	-
PUE C32 WEIGHING TERMINAL					
PUE C32	WX-008-0141	5" graphic colour	IP43	ABS plastic	III
PUE 7.1 WEIGHING TERMINAL					
PUE 7.1	WX-008-0025	5,7" Resistive Color Touchscreen	IP 43	ABS plastic	III
PUE 7.1/P (panel)	WX-008-0026	5,7" Resistive Color Touchscreen	front IP 66/67, construction IP 32	Stainless steel	-
PUE HX5.EX WEIGHING TERMINAL					
PUE HX5.EX-1	WX-008-0145	5" graphic colour	IP 66 / 68	Stainless steel	III
PUE HX5.EX-2	WX-008-0147	5" graphic colour	IP 66 / 68	Stainless steel	III
PUE HX5.EX-3	WX-008-0148	5" graphic colour	IP 66 / 68	Stainless steel	III
PUE HX5.EX-4	WX-008-0149	5" graphic colour	IP 66 / 68	Stainless steel	III
PUE HX7 WEIGHING TERMINAL					
PUE HX7	WX-008-0158	7" graphic colour	IP 66 / 67	Stainless steel	III
PUE HX7/P (panel)	WX-008-0157	7" graphic colour	IP 66 / 67	Stainless steel	-
PUE HY10 WEIGHING TERMINAL					
PUE HY10	WX-008-0027	10.1" graphic colour touchscreen	IP 66 / 67 / 69	Stainless steel	III
PUE 5 WEIGHING TERMINAL					
PUE 5.15R	WX-008-0033	15,6" graphic colour touchscreen	IP 66	Stainless steel	III
PUE 5.15IR	WX-008-0035	15,6" graphic colour touchscreen	IP 66 / 67	Stainless steel	III
PUE 5.15C	WX-008-0036	15,6" graphic colour touchscreen	IP 66 / 67 / 69	Stainless steel	III
PUE 5.19R	WX-008-0034	19" graphic colour touchscreen	IP 66	Stainless steel	III
PUE 5.19IR	WX-008-0037	19" graphic colour touchscreen	IP 66 / 67	Stainless steel	III
PUE 5.19C	WX-008-0038	19" graphic colour touchscreen	IP 66 / 67 / 69	Stainless steel	III

Maximum quantity of verification units	Connection of load cells	Communication interfaces
10000 e	4 or 6 wires + shield	2xUSB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi®, Hotspot
6000 e	4 or 6 wires + shield	RS232, USB optional - tRS232 or RS485 or 4IN/4OUT or Ethernet or analog output 4-20 mA
6000 e	4 or 6 wires + shield	RS232
-	-	-
-	-	-
-	-	-
6000 e	4 or 6 wires + shield	2xRS232, USB-A, USB-B, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi®
6000 e	4 or 6 wires + shield	2xRS232, 2xUSB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi®
-	4 or 6 wires + shield	2xRS232, 2xUSB-A, Ethernet, 4 IN / 4 OUT (digital)
6000 e	4 or 6 wires + shield	2xRS232, RS485
6000 e	4 or 6 wires + shield	2xRS232, RS485, 4 IN / 4 OUT (digital)
6000 e	4 or 6 wires + shield	2xRS232, RS485, 4 IN
6000 e	4 or 6 wires + shield	2xRS232, RS485, 4 OUT
6000 *	4 or 6 wires + shield	RS232, USB-A, 4IN, 4OUT, Ethernet, Modbus RTU
-	4 or 6 wires + shield	RS232, USB-A, 4IN, 4OUT, Ethernet, Modbus RTU
6000 e	4 or 6 wires + shield	2xRS232, 2xUSB-A, Ethernet, 4 IN / 4 OUT (digital)
6000 e	4 or 6 wires + shield	4xUSB 2.0 (2xUSB-A, 2xM12 4P), Ethernet - 2x10/100/1000 Mbit (2xRJ45 hermetic), 2xRS232, RS485 (2xM12 8P)
6000 e	4 or 6 wires + shield	4xUSB 2.0 (2xUSB-A, 2xM12 4P), Ethernet - 2x10/100/1000 Mbit (2xRJ45 hermetic), 2xRS232, RS485 (2xM12 8P)
6000 e	4 or 6 wires + shield	4xUSB 2.0 (2xUSB-A, 2xM12 4P), Ethernet - 2x10/100/1000 Mbit (2xRJ45 hermetic), 2xRS232, RS485 (2xM12 8P)
6000 e	4 or 6 wires + shield	4xUSB 2.0 (2xUSB-A, 2xM12 4P), Ethernet - 2x10/100/1000 Mbit (2xRJ45 hermetic), 2xRS232, RS485 (2xM12 8P)
6000 e	4 or 6 wires + shield	4xUSB 2.0 (2xUSB-A, 2xM12 4P), Ethernet - 2x10/100/1000 Mbit (2xRJ45 hermetic), 2xRS232, RS485 (2xM12 8P)

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