

PUE 7.1 Indicator

Numerous working modes

High efficiency of multifunctional weighing instruments based on load cells



Features

Ergonomics and Comfort of Operation

The indicator is equipped with 5.7" colour TFT touchscreen, ensuring perfect readability, and membrane keypad. The device features two proximity sensors placed at the front of the housing, which can be freely configured using the menu. The proximity sensors enable touch free operation making your work even more comfortable, and help to keep the indicator clean.

Ingress Protection

The standard version of the indicator, PUE 7.1, features plastic housing for which the ingress protection is IP43. The panel version, i.e. PUE 7.1P indicator, is equipped with housing made of stainless steel, rated with IP66/67. The stainless steel model can be installed in a control panel or a switchboard.

Vast Range of Applications

Indicator software offers numerous working modes designed to perform various weighing processes such as parts counting, dosing, formulations, transactions or determination of density of solids. The indicator can be an integral part of many scales and weighing systems operating in various branches of industry.

Communication Interfaces

PUE 7.1 and PUE 7.1P indicators are equipped with RS232, USB-A and Ethernet interfaces and with 4 digital inputs and outputs. This facilitates both cooperation of the indicator with peripheral devices and data exchange using USB drives. The PUE 7.1 comprises Wi-Fi[®] allowing the indicator to connect with wireless networks.

High Efficiency

The indicator features 1,2 GHz quad-core processor, 1 GB RAM and Linux. With this high efficiency operation is guaranteed.

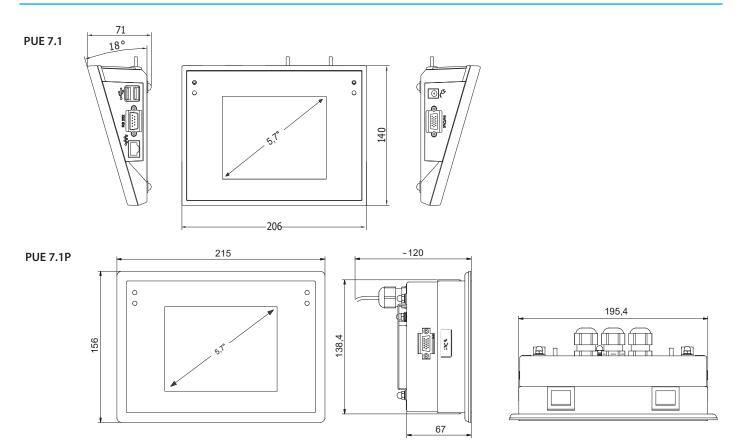
Technical Specifications

DML classIII-Maximum signal gain155 mV155 mVMaximum signal gain125 μV-Maximum voltage per verification unit0.4 μV-Minimum voltage per verification unit1200 Ω200 ΩMaximum load cells impedance50 D C50 D CLass popy voltage of load cell50 D C50 D CLass cells impedance4 or 6 wires + shield4 or 6 wires + shieldMaximum quantity of connected platformsMax 2Max 2Maximum quantity of connected platformsMax 2Max 2Maximum quantity of connected platforms143200 ΩMaximum quantity of connected platformsMax 2Max 2Maximum quantity of connected platformsMax 2Max 2Maximum quantity of connected platformsMax 2Max 2Maximum quantity of connected platformsMax 2Max 2Stappa Cells of a additional A/D DP4 converter*Max 2Max 2Maximum quantity of connected platformsMax 2Max 2Stappa Cells of a dell additional A/D DP4 converter*Max 2Max 2Stappa Cells of a dell additional A/D DP4 converter*Max 2Max 2Stappa Cells of A/D Cells OFMax 2Max 2Stappa Cells of A/D Cells OF <th></th> <th>PUE 7.1</th> <th>PUE 7.1P</th>		PUE 7.1	PUE 7.1P
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Minimu load cells impedance50 00.00Maximu load cells impedance1200 01200 0Stuppy voltage of load cellSVDCSVDCSoudcells wind of load cellsSVDCSVDCCoad cells wind of load cellsAr Switce + shield4 or Switce + shieldModule of an additional A/D DP4 converter*Max. 2Max. 2Multi rangeKas 2Kas 2Kas 2Hulti rangeKas 2Kas 2Kas 2rousingKas 2Kas 2Kas 2rousingKas 2Kas 2Kas 2rousingSolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappacolour TFT (440 x 480) 5.7°Sindard version - IP 52Stappagaud-core 64-bit Cortex-A53 12, GHSindarcore 64-bit Cortex-A53 12, GHStappacolour TFT (440 x 480) 5.7°Sindarcore 64-bit Cortex-A53 12, GHStappacolour TFT (440 x 480) 5.7°Sindarcore 64-bit Cortex-A53 12, GHStappacolour Cortex 55<	Maximum voltage per verification unit	3.25 μV	-
Maximum load cells impedance1200 01200 0Supply voltage of load cellSV DCSV DCSupply voltage of load cellSV DC4 or 6 wires + shield4 or 6 wires + shieldModule of an additional A/D DP4 converter?Max. 2Max. 2Maximum quantity of connected platformsMax. 2Max. 2Mutit rangeYESYESHousingABS plasticABS plasticngress protectionColour TFT (640 × 480) 5.7"with touchscreen 10.2"Voltage of pade version - IP 6467Standard versio	Minimum voltage per verification unit	0.4 μV	-
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Nodule of an additional A/D DP4 converter*11Maximum quantity of connected platformsMax. 2Max. 2Nulti rangeVESVESHousingABS plasticABS plasticangress protectionPlanSandard version - PE 66/67 Standard v	Supply voltage of load cell	5V DC	5V DC
Maximum quantity of connected platformsMax. 2Max. 2Multi rangeYESYESHousingABS plasticABS plasticngress protectionIP 43Standard version - IP 66/67 Standard version - IP 32Displaycolour TFT (640 x 480) 5.7" with touchscreenColour TFT (640 x 480) 5.7" with touchscreenKeypadtouchscreen+function keystouchscreen+function keysKeypadtouchscreen+function keys2Forcessorquad-core 64-bit Cortex-A53 1,2 GH quad-core 64-bit Cortex-A53 1,2 GHquad-core 64-bit Cortex-A53 1,2 GHKaMRAM 1GB LPDDR2RAM 1GB LPDDR2RAM 1GB LPDDR2KeypadInuxLinuxLinuxSystemLinuxLinuxLinuxSystem10 (100 Mbit10 (100 MbitNOUTNOUT10 (100 Mbit10 (100 MbitNOUTNOUTNOUT0UT - max 30 VDC, 0.5 ADC) OUT - max 30 VDC, 0.5 ADC)OUT - max 30 VDC, 0.5 ADC)Operating temperature-10 + 40°C-10 + 40°C-10 + 40°CRange temperature-10 + 40°C-10 + 40°C10 + 80%Range temperature-10 + 450°C-10 + 50°C-10 + 50°CRange temperature<	Load cells wiring	4 or 6 wires + shield	4 or 6 wires + shield
Wulti rangeYESYESHousingABS plasticABS plasticngress protectionIP 43Panel version - IP 66/67 Standard version - IP 32Displaycolour TFT (640 x 480) 5.7" with touchscreenColour TFT (640 x 480) 5.7" with touchscreenKeypadtouchscreen+function keystouchscreen+function keysKeypadtouchscreen+function keys2 programmable proximity sensorsProcessorquad-core 64-bit Cortex-A53 1.2 GH quad-core 64-bit Cortex-A53 1.2 GHquad-core 64-bit Cortex-A53 1.2 GHKaMRAM 1GB LPDDR2RAM 1GB LPDDR2Keys quantityI 6 GB (micro SD)16 GB (micro SD)SystemLinuxLinuxLinuxLinuxLinuxJSB-A22S2321 × connector 15-pin1 × connector 15-pinKereat10/100 Mbit10/100 MbitN/OUTN/OUTModus RTUOperated protocolModus RTUPower supply10 - 28 VDC10.4 S0%Power supply10 + 40 "C-10 + 40 "CPower supply10 + 80%10 + 80%Transport and storage temperature-10 + 40 "COver and and storage temperature206 × 140 × 71 mmVet weight08 kg08 kg	Module of an additional A/D DP4 converter*	1	1
Abs plasticABS plasticABS plasticngress protectionIP 43Panel version - IP 66/67 Standard version - IP 32Displaycolour TFT (640 x 480) 5.7"colour TFT (640 x 480) 5.7"With touchscreenwith touchscreenwith touchscreenKeypadtouchscreen + function keystouchscreen + function keysKeypadz programmable proximity sensors2 programmable proximity sensorsProcessorquad-core 64-bit Cortex-A53 1,2 GHquad-core 64-bit Cortex-A53 1,2 GHAMRAM 1GB LPDDR2RAM 1GB LPDDR2Wemory16 GB (micro SD)16 GB (micro SD)SystemLinuxLinuxJSB-A22S2321 x connector 8-pin, 1 x connector 15-pinStouch TepModbus RTUModbus RTUNOUTwas 30 VDC, 05 ADC; OUT - max 30 VDC, 05 ADC; OUT - max 30 VDC, 05 ADC;NiFi*00211 b/g/n30211 b/g/nPoperating temperature-10 + 40 "C-10 + 40 "C-10 + 40 "CAtapperature-10 + 40 "C-10 + 50 "C-10 + 50 "COperating temperature-10 + 50 "COperating temperature-10 + 50 "CVerweight08 kgSors weight1,2 kg	Maximum quantity of connected platforms	Max. 2	Max. 2
ngress protectionP43Panel version - IP 66/67 Standard version - IP 63/67 Standard version - IP 63/67 with touchscreen touchscreen function keysColour TTT (640 × 480) 5.7° with touchscreen touchscreen function keystouchscreen function keysKeys quantity88Keys quantity2 programmable proximity sensors orcessor2 programmable proximity sensors a quad-core 64-bit Cortex -A53 1.2 GH quad-core 64-bit Cortex -A53 1.2 GHAdM RAM CosessorRAM 1GB LPDDR2RAM 1GB LPDDR2Kemory16 GB (micro SD)16 GB (micro SD)SystemLinuxLinuxUSB-A22Standard version 15-pin1 x connector 15-pinStandard version 15-pin1 x connector 15-pinNOUTNOUT100 MbitNOUT001 max 300 ACD, 55 ADC OUT max 300 ACD, 55 ADC OUT max 300 ACD, 55 ADC OUT max 300 ACD, 55 ADCNotest protocolModbus RTUModbus RTUNover consumption10+28 VDC10+28 VDCOperated protocolModbus RTU1004As power consumption10+80%10+80%Correat disorge temperature10	Multi range	YES	YES
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Keys quantity88Touch-free operation2 programmable proximity sensors2 programmable proximity sensorsProcessorquad-core 64-bit Cortex-A53 1,2 GHquad-core 64-bit Cortex-A53 1,2 GHRAMRAM 1GB LPDDR2RAM 1GB LPDDR2Memory16 GB (micro SD)16 GB (micro SD)SystemLinuxLinuxJSB-A22S2321 × connector 8-pin, 1 × connector 15-pin1 × connector 15-pinSthemet10/100 Mbit10/100 MbitN/OT802.11 b/g/n802.11 b/g/nOPerated protocolModbus RTUModbus RTUProver supply10 - 28 VDC10 - 28 VDCOperating temperature-10 + 40 °C-10 + 40 °CRelative humidity**10 + 80%10 + 80%Fransport and storage temperature206 × 140 × 71 mm206 × 140 × 71 mmNet weight0.8 kg0.8 kg12 kg	Display	· · · · · ·	
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Memory16 GB (micro SD)16 GB (micro SD)SystemLinuxLinuxJSB-A2S2321 × connector 8-pin, 1 × connector 15-pin1 × connector 15-pinEthernet10 / 100 Mbit10 / 100 MbitN/OUT10 / 100 Mbit10 / 100 MbitN/OUT201 - max 30 VDC, 0.5 ADC)0UT - max 30 VDC, 0.5 ADC)Operated protocolModbus RTUModbus RTUPower supply10 - 28 VDC10 - 28 VDCOperating temperature-10 ÷ +40 °C-10 ÷ +40 °CCharlen storage temperature10 ÷ 80%10 ÷ 80%Charlen storage temperature206 × 140 × 71 mm206 × 140 × 71 mmNet weight0.8 kg0.8 kg	Processor	quad-core 64-bit Cortex-A53 1,2 GHz	quad-core 64-bit Cortex-A53 1,2 GHz
System Linux Linux JSB-A 2 2 RS 232 1 × connector 8-pin, 1 × connector 15-pin 1 × connector 8-pin, 1 × connector 15-pin Ethernet 10 / 100 Mbit 10 / 100 Mbit N/OUT 4 × 1N, 4 × OUT for (IN – 5-24 VDC, OUT – max 30 VDC, 0.5 ADC) 4 × 1N, 4 × OUT for (IN – 5-24 VDC, OUT – max 30 VDC, 0.5 ADC) N/EFI* 802.11 b/g/n 802.11 b/g/n Operated protocol Modbus RTU Modbus RTU Power supply 10 – 28 VDC 10 × 400°C Operating temperature -10 ÷ +40 °C -10 ÷ +40 °C Relative humidity** 10 ÷ 80% 10 ÷ 80% Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C Overall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Steweight 0.8 kg 0.8 kg	RAM	RAM 1GB LPDDR2	RAM 1GB LPDDR2
JSB-A22RS 2321 × connector 8-pin, 1 × connector 15-pin1 × connector 8-pin, 1 × connector 15-pin1 × connector 15-pinEthernet10/100 Mbit10/100 Mbit10/100 MbitN/OUT4 × IN, 4 × OUT for (IN – 5-24 VDC, OUT – max 30 VDC, 0.5 ADC)4 × IN, 4 × OUT for (IN – 5-24 VDC, OUT – max 30 VDC, 0.5 ADC)Mi-Fi*802.11 b/g/n802.11 b/g/nOperated protocolModbus RTUModbus RTUPower supply10 – 28 VDC10 – 28 VDCPower supply100 – 28 VDC100 – 28 VDCOperating temperature-10 ÷ +40 °C-10 ÷ +40 °CRelative humidity**10 ÷ 80%10 ÷ 80%Transport and storage temperature206 × 140 × 71 mmOverall dimensions206 × 140 × 71 mmNet weight0.8 kg0.8 kgGross weight1.2 kg1.2 kg	Memory	16 GB (micro SD)	16 GB (micro SD)
RS 2321 × connector 8-pin, 1 × connector 15-pin1 × connector 8-pin, 1 × connector 15-pinEthernet10/100 Mbit10/100 MbitN/OUT10/100 Mbit10/100 MbitN/OUT4 × IN, 4 × OUT for (IN - 5-24 VDC, 0UT - max 30 VDC, 0.5 ADC)4 × IN, 4 × OUT for (IN - 5-24 VDC, 0UT - max 30 VDC, 0.5 ADC)Wi-Fi*802.11 b/g/n802.11 b/g/nOperated protocolModbus RTUModbus RTUPower supply10 - 28 VDC10 - 28 VDCOperating temperature-10 ÷ 440°C-10 ÷ 440°COperating temperature-10 ÷ 50°C-10 ÷ 50°CObreall dimensions206 × 140 × 71 mm206 × 140 × 71 mmNet weight0.8 kg0.8 kg	System	Linux	Linux
1 × connector 15-pin 1 × connector 15-pin Ethernet 10/100 Mbit 10/100 Mbit N/OUT 4×1N, 4 × OUT for (IN - 5-24 VDC, OUT - max 30 VDC, 0.5 ADC) 4×1N, 4 × OUT for (IN - 5-24 VDC, OUT - max 30 VDC, 0.5 ADC) Wi-Fi* 802.11 b/g/n 802.11 b/g/n Power supply 10 - 28 VDC Modbus RTU Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 - 28 VDC Power supply 10 - 28 VDC 10 + 28 VDC Power supply 10 - 28 VDC 10 + 28 VDC Power supply 10 - 28 VDC 10 + 28 VDC Power supply 10 + 50 °C -10 + +40 °C Relative humidity** 10 + 80% 206 × 140 × 71 mm Power supply 206 × 140 × 71 mm 206 × 140 × 71 mm Po	USB-A	2	2
N/OUT \$\L2 N, 4 \times OUT for (IN - 5-24 VDC, 0, OUT - max 30 VDC, 0.5 ADC) \$\L2 VDC - max 30 VDC, 0.5 ADC) Wi-Fi® \$\u00902.11 b/g/n \$\u00902.11 b/g/n Operated protocol Modbus RTU Modbus RTU Power supply \$10 - 28 VDC \$10 - 28 VDC Max power consumption \$10 V \$10 V Operating temperature \$10 + 40 °C \$10 + 40 °C Relative humidity** \$10 + 50 °C \$10 + 50 °C Overall dimensions \$206 × 140 × 71 mm \$206 × 140 × 71 mm Net weight \$0.8 kg \$0.8 kg \$0.8 kg	RS 232		
NT - max 30 VDC, 05 ADC)OUT - max 30 VDC, 05 ADC)Wi-Fi®802.11 b/g/n802.11 b/g/nOperated protocolModbus RTUModbus RTUPower supply10 - 28 VDC10 - 28 VDCPower consumption10 W10 - 28 VDCOperating temperature-10 ÷ +40 °C-10 ÷ +40 °CRelative humidity**10 ÷ 80%10 ÷ 80%Overall dimensions206 × 140 × 71 mm206 × 140 × 71 mmNet weight0.8 kg0.8 kg12 kg	Ethernet	10 / 100 Mbit	10 / 100 Mbit
Operated protocolModbus RTUModbus RTUPower supply10 - 28 VDC10 - 28 VDCMax power consumption10 W10 WOperating temperature-10 ÷ +40 °C-10 ÷ +40 °CRelative humidity**10 ÷ 80%10 ÷ 80%Transport and storage temperature-10 ÷ +50 °C-10 ÷ +50 °COverall dimensions206 × 140 × 71 mm206 × 140 × 71 mmNet weight0.8 kg0.8 kgGross weight1.2 kg1.2 kg	IN/OUT		
Power supply 10 – 28 VDC 10 – 28 VDC Max power consumption 10 W 10 W Operating temperature -10 ÷ +40 °C -10 ÷ +40 °C Relative humidity** 10 ÷ 80% 10 ÷ 80% Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C Overall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Net weight 0.8 kg 0.8 kg 1.2 kg	Wi-Fi®	802.11 b/g/n	802.11 b/g/n
Max power consumption 10W 10W Operating temperature -10÷+40°C -10÷+40°C Relative humidity** 10÷80% 10÷80% Transport and storage temperature -10÷+50°C -10÷+50°C Overall dimensions 206×140×71 mm 206×140×71 mm Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Operated protocol	Modbus RTU	Modbus RTU
Derating temperature -10 ÷ +40 °C -10 ÷ +40 °C Relative humidity** 10 ÷ 80% 10 ÷ 80% Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C Overall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Power supply	10 – 28 VDC	10 – 28 VDC
Relative humidity** 10 ÷ 80% 10 ÷ 80% Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C Overall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Max power consumption	10 W	10 W
Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C Overall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Operating temperature	-10 ÷ +40 ℃	-10 ÷ +40 ℃
Dverall dimensions 206 × 140 × 71 mm 206 × 140 × 71 mm Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Relative humidity**	10 ÷ 80%	10 ÷ 80%
Net weight 0.8 kg 0.8 kg Gross weight 1.2 kg 1.2 kg	Transport and storage temperature	−10 ÷ +50 °C	-10 ÷ +50 ℃
Gross weight 1.2 kg	Overall dimensions	206 × 140 × 71 mm	206 × 140 × 71 mm
	Net weight	0.8 kg	0.8 kg
Packaging dimensions 300 × 250 × 130 mm 300 × 250 × 130 mm	Gross weight	1.2 kg	1.2 kg
	Packaging dimensions	300 × 250 × 130 mm	300 × 250 × 130 mm

* optional version

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Dimensions



Accessories

Peripheral Devices

- Epson dot matrix printer
- label printers Zebra
- WWG-2/5 large-size display
- LCD WD-4/4 display (backlit)
- stack light
- keyboards, external switches
- transponder card scanner
- barcode scanner

Weighing Platforms

- 1 load cell platforms
- 4 load cell platforms
- high resolution platforms

Cables, Converters

- RS-232 P0108 cable (scale indicator)
- RS-232 P0167 cable (scale indicator)
- RS-232 PT0301 cable (scale indicator)
- RS-232 P0151 Epson printer cable
- RS-232 P0183 Zebra printer cablei
- IN/OUT PT0128 cables
- USB cable type A-B
- Ethernet cable
- AP2-1 current loop unit (in stainless steel housing)
- K0047 cigarette lighter cable

Remaining accessories

stands for indicators

Dedicated Software

R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

Label Editor R02

- designing label templates
- sending graphics and fonts to label printers
- printing label templates using connected printers

E2R PGC

- synchronization of databases, operators, products schedules
- record of measurements and PGC controls carried out on weighing instruments linked in ETHERNET network
- quality assessment of pre- packaged goods based on acquired data

E2R Weighing Records

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving
- basic and advanced (with graphs) reports

E2R Formulations

- carrying out simple formulations
- support of an advanced formulations orders function
- warehouse management
- optional automatic dispensing and constant correction of the dispensing process
- control of an ingredient using the barcode scanner

E2R Weighings

- record of measurements carried out using the weighing indicators
- online monitoring of the production lines
- weighing thresholds control
- employees working time reporting

RAD KEY

• Establishing cooperation between a weighing instrument and a computer

R.Barcode

• The basic function software is presentation of the data sent by barcode scanners connected to PC via USB or RS232

Radwag Development Studio

• presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)

- possibility of connection with weighing equipment on which each function is carried out,
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

RADWAG Connect

- establishing communication with all balances, scales and weighing modules using Common Communication Protocol
- · communication via local network,
- support of basic functions
- auto searching for devices
- connecting with few devices simultaneously, swapping between them
- clear list of connected platforms
- record of measurements in the program,
- export of carried out measurements to CSV file,
- work performed using freely selected device with Windows 10

LabView Driver

• operation of RADWAG balances in LabView environment

RADWAG Remote Desktop

- remote operation via computer, mobile phone or tablet
- sending text messages
- version for Windows 10 and Android systems

Parameters Editor

- remote change of parameters
- remote on-line preview of the display
- displaying current mass indication
- software update
- file loading, editing and saving parameters to a file
- import and export of parameters
- interfaces: RS232, Ethernet and Wireless Connection.
- quick and easy edition of balance parameters using computer.

Audit Trail Reader

- support of Audit Trail function available for 3Y, 4Y, HY10, WLY, WPY series weighing instruments
- record of operator's activity from the moment of logging in