

PM C32 Precision Balances

'Advanced level' measurement of large masses with the highest accuracy in laboratory and industry



Technical Specifications

Reliable Results and High Measurement Precision

Excellent measurement parameters and performance enable applying PM C32 balances in laboratories and various branches of industry.

Radwag MonoBLOCK™, an Innovative Weighing System

The cutting edge technology of the measuring system guarantees stability of repeatability in time, where sd<1, and a significant resistance to ambient conditions.

Weighing Heavy Loads With the Maximum Accuracy

It is possible to work with samples of different weight values, from few grams to several kilograms, wherein the highest measurement accuracy and excellent result repeatability are maintained.

Reliability and Safety

4-point protection system prevents balance overloading, this ensures safety in case too heavy load is applied onto the weighing pan. Robust design allows to operate the device even in the most challenging ambient conditions.

Ease of Use and Maximum Comfort of Operation

5" colour screen enables intuitive operation and easy access to numerous applications and functions. PM C32 program allows screen layout customization.

Automatic Adjustment

Internal adjustment system guarantees the highest accuracy and reliable measurements results.

Touch-Free Operation

Two programmable proximity sensors can be assigned with any function or application. The given function when assigned is both run and operated touch-free.

Numerous Options of Data Management

The instrument enables saving all completed measurements data as complex reports and graphs.

Technical Specifications

| Maximum capacity (Max)16kg15kg25kg35kgPreload15kg25kg35kgMinimum load05g05g5g5gBeadability (G)0.01 g0.1 g0.1 gVerification scale interval (e)0.1 g1 g1 gTare range-0 kg2 skg3 skgRepeatability (Max)0.004 g0.004 g0.04 g0.04 gRepeatability (Max)0.01 g0.015 g0.1 g0.1 gLinearity2 x01 // TC Rt2 x10 // TC Rt2 x10 // TC Rt2 x10 // TC RtMinimu weight (U=1%), A0.82 g82 g82 g82 gStability temperature dirit2 x10 // TC Rt2 x10 // TC Rt2 x10 // TC RtMinimu weight (U=1%), A0.82 g82 g82 g82 gStabilization time8 xg8 xg3 s3 sAdjustment1 kernaliternaliternaliternalVerificationYes a sk3 s3 s3 sAdjustment1 kernaliternaliternaliternalVerificationYes a sk5 s5 s5 s5 sDiplay5' graphic colour5' graphic colour5' graphic colour5' graphic colour5' graphic colourDiplay1 A1 A1 A1 A1 ANot Class1 A1 A1 A1 AStabases2 programmable proximity errors2 programmable proximity errors2 programmable proximity errors | | PM 10.C32 | PM 15.C32 | PM 25.C32 | PM 35.C32 |
|--|-----------------------------------|--|--------------------------------|--------------------------------|----------------------------------|
| Preload1 kg1 skg2 skg3 skgMinimu load0.5 g0.5 g5 g5 gReadability (d)0.01 g0.10 g0.10 g0.10 gVerification scale interval (e)0.19 g1 g dTare range1.0 kg0.04 g0.04 g0.04 g0.04 gRepeatability (Max)0.01 g0.015 g0.10 g0.10 g0.03 g0.30 g0.30 gSensitivity temperature diff*2 x 10 ⁴ / ⁻ / ⁻ x Rt2 x 10 ⁴ / ⁻ / ⁻ x Rt2 x 10 ⁴ / ⁻ / ⁻ x Rt2 x 10 ⁴ / ⁻ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%) ks2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%)2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%)2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x Rt2 x 10 ⁴ / ⁻ x RtMinimu weight (U=1%)2 x 10 ⁴ / _x x Rt2 x 10 ⁴ / _x | Maximum capacity [Max] | | | | |
| Minimunoad95 g95 g95 g95 gReadability (d)0.01 g0.01 g0.1 g0.1 gVerification scale interval (e)0.19 g | | Ū | Ū | | 0 |
| Readability[d]0.01 g0.01 g0.01 g0.01 gVerification scale intervale10 g | Minimum load | - | | - | |
| Verification scale interval [e]0.1 g-1 g1 gTare range-10 kg-15 kg-25 kg-35 kgRepeatability (Max)0.004 g0.004 g0.04 g0.1 gLinearity±0.03 g±0.03 g±0.3 g±0.3 gSensitivity temperature drift**2 × 104 /*C × Rt2 × 104 /*C × Rt2 × 104 /*C × RtMinimum weight (U=19, k=2)0.82 g0.82 g82 g82 gStabilization time3 s3 s3 s3 sAdjustmentinternalinternalinternalinternalVerificationYes | Readability [d] | | - | - | - |
| Tare range-10 kg-15 kg-25 kg-35 kgRepeatability (5% Max)*0004 g0004 g004 g0.04 gRepeatability (Max)010 g0.015 g0.1 g0.1 gLinearity± 0.03 g± 0.03 g± 0.3 g2.3 l0 / °C x RtLinearity± 0.03 g82 g82 g82 g82 gSensitivity temperature drift**2 x 10 °/ °C x Rt2 x 10 °/ °C x Rt2 x 10 °/ °C x RtMinimum weight (U=1% k=2)82 g82 g82 g82 gSabilization time3 s3 s3 s3 sAdjustment1 kernalinternalinternalinternalVerificationYes | • | - | - | - | - |
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| Linearity±003 g±003 g±0.03 g±0.03 g±0.03 gSensitivity temperature drift**2×104/*C×Rt2×104/*C×Rt2×104/*C×Rt2×104/*C×RtMinimu weight (USP)0.82 g0.82 g8.2 g8.2 gMinimu weight (USP)8.2 g0.82 g8.2 g8.2 gSabilization3 s3 s3 s3 sAdjustnentinternalinternalinternalinternalVerificationYes-IIIndicator fastening1.5 m cable1.5 m cable1.5 m cableTerminal modelPUE G22 indicatorPUE G22 indicatorPUE G22 indicatorDisplayS* graphic colour5* graphic colour5* graphic colour5* graphic colourProtech ordasIP43IP43IP43IP43Databases5SSTouch-free operation2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensorsUSB-A1111VSB-B11.0100 Mbit1.0100 Mbit1.0100 MbitWeiffer0.0110 Mbit0.1100 Mbit1.0100 Mbit1.0100 MbitWeiffer1.5 m colo1.5 m colo1.5 m colo1.5 m coloDatabases5SSSSDatabase1.61.61.61.6S23.222221.6Dush-free operation1.61.01.61.6S15.41.61.01 | Repeatability (Max) | - | - | 0.1 g | 0.1 g |
| Minimu weight (U=1%, k=2)082 g082 g82 g< | Linearity | ± 0.03 g | ± 0.03 g | ± 0.3 g | ± 0.3 g |
| Minimu weight (USP)8.2 g8.2 g8.2 g8.2 g8.2 gStabilization time3 s3 s3 s3 s3 sAdjustmentinternalinternalinternalinternalVerificationYes-WesYesOIML ClassII-IIIIIndicator fastening15 m cable15 m cable15 m cable15 m cableTerminal modelPUE G32 indicatorPUE G32 indicatorPUE G32 indicatorPUE G32 indicatorDisplay5 graphic colour5 graphic colour5 graphic colour5 graphic colour5 graphic colourProtection classIP 43IP 43IP 43IP 43IP 43Databases555S sensorsSensorsUSB-A1111IP 43USB-B110100 Mbit10/100 Mbit10/100 Mbit10/100 MbitViFiF802.11b/g/n802.11b/g/n802.11b/g/n802.11b/g/n802.11b/g/nPower supply15 N15 N15 N10 + 40 °C10 + 40 °CPower supply10 + 16 VDC12 + 16 VDC10 + 40 °C10 + 40 °CPower supply10 + 40 °C10 + 40 °C10 + 40 °C10 + 40 °CPower supply10 + 40 °C10 + 40 °C10 + 40 °C10 + 40 °CPower supply10 + 10 + 40 °C10 + 40 °C10 + 40 °C10 + 40 °CPower supple10 + 40 °C10 + 40 °C10 + 40 °C10 + 40 °CPower supple10 + 40 °C <th>Sensitivity temperature drift**</th> <td>$2 \times 10^{-6} / ^{\circ}C \times Rt$</td> <td>2 × 10⁻⁶ / °C × Rt</td> <td>2 × 10⁻⁶/ °C × Rt</td> <td>2 × 10⁻⁶/ °C × Rt</td> | Sensitivity temperature drift** | $2 \times 10^{-6} / ^{\circ}C \times Rt$ | 2 × 10 ⁻⁶ / °C × Rt | 2 × 10 ⁻⁶ / °C × Rt | 2 × 10 ⁻⁶ / °C × Rt |
| Stabilization time3 s3 s3 s3 s3 sAdjustmentinternalinternalinternalinternalVerificationYesYesYesOIML ClassIIII.II.Indicator fastening1.5 m cable1.5 m cable1.5 m cable1.5 m cableDisplayS* graphic colourS* graphic colourPUE G32 indicatorPUE G32 indicatorDisplayS* graphic colourS* graphic colourS* graphic colourS* graphic colourReypad22-key membrane22-key membrane22-key membrane22-key membraneProtection classIP 43IP 43IP 43IP 43Databases5555Touch-free operation2 programmable proxinity sensors2 programmable proxinity sensors2 programmable proxinity sensorsUSB-A1111RS 23222222Power supply21-16 / DC12 + 16 / DC12 + 16 / DC12 + 16 / DCPower supply12 + 16 / DC15 m c40 / C12 + 16 / DC12 + 16 / DCPower supply10 + 40 °C410 + 40 °C40 + 80 %40 + 80 %Transport and storage temperature10 + 40 °C10 + 40 °C10 + 40 °CWeighing padimensions500 × 20 × 115 mm500 × 20 × 115 mm500 × 20 × 115 mmWeighing device dimensions500 × 20 × 115 mm500 × 20 × 50 × 115 mm500 × 20 × 50 × 50 × 50 × 50 × 50 × 50 × | Minimum weight (U=1%, k=2) | 0.82 g | 0.82 g | 8.2 g | 8.2 g |
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| Display5° graphic colour5° graphic colour5° graphic colour5° graphic colourKeypad22-key membrane22-key membrane22-key membrane22-key membraneProtection classIP 43IP 43IP 43IP 43Database5555Touch-free operation2 programmable proximity sensors2 programmable proximity sensorsUSB-A11 <t< th=""><th>Indicator fastening</th><th>1.5 m cable</th><th>1.5 m cable</th><th>1.5 m cable</th><th>1.5 m cable</th></t<> | Indicator fastening | 1.5 m cable | 1.5 m cable | 1.5 m cable | 1.5 m cable |
| Keypad22-key membrane22-key membrane22-key membrane22-key membraneProtection classIP 43IP 43IP 43IP 43Databases5555Touch-free operation2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensorsUSB-A11111USB-B11111RS 23222222Ethernet10/100 Mbit10/100 Mbit10/100 Mbit10/100 MbitWi-Fi*802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/nPower supply12 + 16 V DC12 + 16 V DC12 + 16 V DC12 + 16 V DCPower consumption15W15W15W15W10 + 40 °CAtmospheric humidity***40 + 80 %40 + 80 %40 + 80 %40 + 80 %Atmospheric humidity***10 + 15 °C-10 + 50 °C-10 + 50 °C-10 + 50 °CWeighing and imensions508 × 296 × 115 mm508 × 296 × 115 mm508 × 296 × 115 mm508 × 296 × 115 mmNet weight10 kg10 kg10 kg11 kg11 kgGross weight12 kg12 kg12 kg13 kg | Terminal model | PUE C32 indicator | PUE C32 indicator | PUE C32 indicator | PUE C32 indicator |
| Protection classIP43IP43IP43IP43IP43Databases55555Touch-free operation2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensors2 programmable proximity sensorsUSB-A11111USB-B11111RS 232222222Ethernet10/100 Mbit10/100 Mbit10/100 Mbit10/100 MbitWi-Fi*802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/nPower supply12 + 16 V DC12 + 16 V DC12 + 16 V DC12 + 16 V DCPower consumption15W15W15W15W15WOperating temperature+10 + +40 °C+10 + +40 °C+10 + +40 °C+10 + +40 °CAtmospheric humidity***40 + 80 %40 + 80 %40 + 80 %40 + 80 %Vielghing pan dimensions200 × 185 mm200 × 185 mm508 × 296 × 115 mm508 × 296 × 115 mmNetweight10 kg10 kg10 kg11 kg11 kgGross weight12 kg12 kg12 kg13 kg | Display | 5" graphic colour | 5" graphic colour | 5" graphic colour | 5" graphic colour |
| Databases555Duch-free operation2 programmable proximily sensors2 programmable proximily sensors2 programmable proximily sensors2 programmable proximily sensorsUSB-A1111USB-B1111RS 23222222Ethernet10/100 Mbit10/100 Mbit10/100 Mbit10/100 Mbit10/100 MbitWi-Fi*802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/nPower consumption15 W15 W15 W15 W15 WOperating temperature410 ÷ 440 °C+10 ÷ 440 °C+10 ÷ 440 °C+10 ÷ 440 °CWi-Bihng pan dimensions200 × 185 mm200 × 185 mm368 × 296 × 115 mm568 × 296 × 115 mmNetweight10 kg10 kg10 kg10 kg11 kg11 kgGross weight12 kg12 kg12 kg12 kg12 kg | Keypad | 22-key membrane | 22-key membrane | 22-key membrane | 22-key membrane |
| Touch-free operation 2 programmable proximity sensors 2 programmable proximity sensors 2 programmable proximity sensors 2 programmable proximity sensors USB-A 1 1 1 1 1 USB-B 1 1 1 1 1 RS 232 2 2 2 2 2 Ethernet 10/100 Mbit 10/100 Mbit 10/100 Mbit 10/100 Mbit Wi-Fi* 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n Power supply 12÷16 V DC 12÷16 V DC 12÷16 V DC 12÷16 V DC Power consumption 15W 15W 15W 15W Operating temperature +10÷+40 °C +10÷+40 °C +10÷+40 °C +10÷+40 °C Atmospherichumidity*** 40÷80 % 40÷80 % 40÷80 % 40÷80 % Weighing pan dimensions 200×185 mm 200×185 mm 347×259 mm 347×259 mm Weighing device dimensions 508×296×115 mm 508×296×115 mm 508×296×115 mm 508×296×115 mm Net weight 10kg | Protection class | IP 43 | IP 43 | IP 43 | IP 43 |
| sensors sensors sensors sensors USB-A 1 1 1 USB-B 1 1 1 RS 232 2 2 2 Ethernet 10/100 Mbit 10/100 Mbit 10/100 Mbit Wi-Fi® 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n Power supply 12 + 16 V DC 12 + 16 V DC 12 + 16 V DC Power consumption 15 W 15 W 15 W Operating temperature +10 + +40 °C +10 + +40 °C +10 + +40 °C Atmospherichumidity*** 40 + 80 % 40 + 80 % 40 + 80 % Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm 508 × 296 × 115 mm 508 × 296 × 115 mm Net weight 10 kg 10 kg 11 kg 11 kg | Databases | 5 | 5 | 5 | 5 |
| USB-B 1 1 1 RS 232 2 2 2 2 Ethernet 10/100 Mbit 10/100 Mbit 10/100 Mbit 10/100 Mbit Wi-Fi® 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n Power supply 12÷16VDC 12÷16VDC 12÷16VDC 12÷16VDC Power consumption 15W 15W 15W 15W Operating temperature +10÷440°C +10÷440°C +10÷440°C +10÷440°C Atmospheric humidity*** 40÷80% 40÷80% 40÷80% 40÷80% Veighing pan dimensions 200×185 mm 200×185 mm 347×259 mm 347×259 mm Weighing device dimensions 508×296×115 mm 508×296×115 mm 508×296×115 mm 508×296×115 mm Net weight 10kg 10kg 10kg 11kg 11kg | Touch-free operation | | | | 2 programmable proximity sensors |
| RS 2322222Ethernet10/100 Mbit10/100 Mbit10/100 Mbit10/100 MbitWi-Fi®802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/nPower supply12 ÷ 16 V DC12 ÷ 16 V DC12 ÷ 16 V DC12 ÷ 16 V DCPower consumption15 W15 W15 W15 WOperating temperature+10 ÷ +40 °C+10 ÷ +40 °C+10 ÷ +40 °CAtmospheric humidity***40 ÷ 80 %40 ÷ 80 %40 ÷ 80 %Veighing pan dimensions200 × 185 mm200 × 185 mm347 × 259 mmWeighting device dimensions508 × 296 × 115 mm508 × 296 × 115 mm508 × 296 × 115 mmNet weight10 kg10 kg10 kg11 kg11 kgGross weight12. kg12. kg12. kg13. kg13. kg | USB-A | 1 | 1 | 1 | 1 |
| Ethernet10 / 100 Mbit10 / 100 Mbit10 / 100 Mbit10 / 100 MbitWi-Fi®802.11 b/g/n802.11 b/g/n802.11 b/g/n802.11 b/g/nPower supply12 ÷ 16 V DC12 ÷ 16 V DC12 ÷ 16 V DC12 ÷ 16 V DCPower consumption15 W15 W15 W15 WOperating temperature+10 ÷ +40 °C+10 ÷ +40 °C+10 ÷ +40 °C+10 ÷ +40 °CAtmospheric humidity***40 ÷ 80 %40 ÷ 80 %40 ÷ 80 %40 ÷ 80 %Transport and storage temperature-10 ÷ +50 °C-10 ÷ +50 °C-10 ÷ +50 °C-10 ÷ +50 °CWeighing pan dimensions200 × 185 mm200 × 185 mm347 × 259 mm347 × 259 mmWeighing device dimensions508 × 296 × 115 mm508 × 296 × 115 mm508 × 296 × 115 mm508 × 296 × 115 mmNet weight10 kg10 kg10 kg12 kg12 kg13 kg13 kg | USB-B | 1 | 1 | 1 | 1 |
| Wi-Fi* 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n 802.11 b/g/n Power supply 12 ÷ 16 V DC Power consumption 15 W 15 W 15 W 15 W Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity*** 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % Veighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm Ret weight 10 kg 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg 13.2 kg | RS 232 | 2 | 2 | 2 | 2 |
| Power supply 12 ÷ 16 V DC Power consumption 15 W 15 W 15 W 15 W Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity*** 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Net weight 10 kg 10 kg 10 kg 11 kg 11 kg Gross weight 12 × 16 V DC 12 × 16 V DC 13.2 kg 13.2 kg | Ethernet | 10 / 100 Mbit | 10 / 100 Mbit | 10 / 100 Mbit | 10 / 100 Mbit |
| Power consumption 15W 15W 15W 15W Operating temperature +10÷+40°C +10÷+40°C +10÷+40°C +10÷+40°C Atmospheric humidity** 40÷80% 40÷80% 40÷80% 40÷80% Transport and storage temperature -10÷+50°C -10÷+50°C -10÷+50°C -10÷+50°C Weighing pan dimensions 20×185 mm 20×185 mm 347×259 mm 347×259 mm Weighing device dimensions 508×206×115 mm 508×206×115 mm 508×206×115 mm 508×206×115 mm Net weight 10kg 10kg 10kg 11kg 11kg Transport and storage temperature 12.kg 12.kg 13.2kg 13.2kg | Wi-Fi [⊗] | 802.11 b/g/n | 802.11 b/g/n | 802.11 b/g/n | 802.11 b/g/n |
| Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity*** 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm Net weight 10 kg 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Power supply | 12 ÷ 16 V DC | 12 ÷ 16 V DC | 12 ÷ 16 V DC | 12 ÷ 16 V DC |
| Atmospheric humidity*** 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % 40 ÷ 80 % Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm Net weight 10 kg 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Power consumption | 15 W | 15 W | 15 W | 15 W |
| Transport and storage temperature -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C -10 ÷ +50 °C Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm Net weight 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Operating temperature | +10 ÷ +40 °C | +10 ÷ +40 °C | +10 ÷ +40 °C | +10 ÷ +40 °C |
| Weighing pan dimensions 200 × 185 mm 200 × 185 mm 347 × 259 mm 347 × 259 mm Weighing device dimensions 508 × 296 × 115 mm Net weight 10 kg 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Atmospheric humidity*** | 40 ÷ 80 % | 40 ÷ 80 % | 40 ÷ 80 % | 40 ÷ 80 % |
| Weighing device dimensions 508 × 296 × 115 mm Net weight 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Transport and storage temperature | −10 ÷ +50 °C | −10 ÷ +50 °C | −10 ÷ +50 °C | −10 ÷ +50 °C |
| Net weight 10 kg 10 kg 11 kg 11 kg Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Weighing pan dimensions | 200 × 185 mm | 200 × 185 mm | 347 × 259 mm | 347 × 259 mm |
| Gross weight 12.2 kg 12.2 kg 13.2 kg 13.2 kg | Weighing device dimensions | 508 × 296 × 115 mm | 508 × 296 × 115 mm | 508 × 296 × 115 mm | 508 × 296 × 115 mm |
| | Net weight | 10 kg | 10 kg | 11 kg | 11 kg |
| Packaging dimensions 520 × 520 × 280 mm | Gross weight | 12.2 kg | 12.2 kg | 13.2 kg | 13.2 kg |
| | Packaging dimensions | 520 × 520 × 280 mm | 520 × 520 × 280 mm | 520 × 520 × 280 mm | 520 × 520 × 280 mm |

Rt net weight

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: $+15 \div +35$ °C

*** non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

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Technical Specifications

| | PM 50.C32 | PM 60.05.C32 | PM 60.1.C32 |
|-----------------------------------|--|--|--|
| Maximum capacity [Max] | 50 kg | 60 kg | 60 kg |
| Preload | 5 kg | _ | _ |
| Minimum load | 5 g | 0.5 g | 1 g |
| Readability [d] | 0.1 g | 0.5 g | 1 g |
| Verification scale interval [e] | 1 g | | |
| Tare range | –50 kg | –60 kg | –60 kg |
| Repeatability (5% Max)* | 0.04 g | 0.2 g | 0.4 g |
| Repeatability (Max) | 0.15 g | 0.4 g | 0.8 g |
| Linearity | ± 0.3 g | ± 1.5 g | ±3g |
| Sensitivity temperature drift** | $2 \times 10^{-6} / °C \times Rt$ | 2 × 10 ⁻⁶ /°C × Rt | 2 × 10 ⁻⁶ / ℃ × Rt |
| Minimum weight (U=1%, k=2) | 8.2 g | 41 g | 82 g |
| Minimum weight (USP) | 82 g | 410 g | 820 g |
| Stabilization time | 3 s | 3 s | 3 s |
| Adjustment | internal | internal | internal |
| Verification | Yes | _ | — |
| OIML Class | | | — |
| Indicator fastening | 1.5 m cable | 1.5 m cable | 1.5 m cable |
| Terminal model | PUE C32 indicator | PUE C32 indicator | PUE C32 indicator |
| Display | 5" graphic colour | 5" graphic colour | 5" graphic colour |
| Keypad | 22-key membrane | 22-key membrane | 22-key membrane |
| Protection class | IP 43 | IP 43 | IP 43 |
| Databases | 5 | 5 | 5 |
| Touch-free operation | 2 programmable proximity sensors | 2 programmable proximity sensors | 2 programmable proximity sensors |
| USB-A | 1 | 1 | 1 |
| USB-B | 1 | 1 | 1 |
| RS 232 | 2 | 2 | 2 |
| Ethernet | 10 / 100 Mbit | 10 / 100 Mbit | 10 / 100 Mbit |
| Wi-Fi® | 802.11 b/g/n | 802.11 b/g/n | 802.11 b/g/n |
| Power supply | 12 ÷ 16 V DC | 12 ÷ 16 V DC | 12 ÷ 16 V DC |
| Power consumption | 15 W | 15 W | 15 W |
| Operating temperature | +10 ÷ +40 °C | +10 ÷ +40 °C | +10 ÷ +40 °C |
| Atmospheric humidity*** | 40 ÷ 80 % | 40 ÷ 80 % | 40 ÷ 80 % |
| Transport and storage temperature | -10 ÷ +50 ℃ | -10 ÷ +50 ℃ | -10 ÷ +50 ℃ |
| Weighing pan dimensions | 347 × 260 mm | 500 × 400 mm | 500 × 400 mm |
| Weighing device dimensions | 508 × 296 × 115 mm | 640 × 400 × 115 mm | 640 × 400 × 115 mm |
| Net weight | 11 kg | 17 kg | 17 kg |
| Gross weight | 13.2 kg | 19 kg | 19 kg |
| Packaging dimensions | $520 \times 520 \times 280 \text{ mm}$ | $700 \times 600 \times 200 \text{ mm}$ | $700 \times 600 \times 200 \text{ mm}$ |

Rt net weight * repeatability

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: +15 ÷ +35 ℃

*** non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 \div +35 °C.

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Dimensions



Accessories

Weighing Tables

- granite antivibration table
- antivibration tables for laboratory balances

Peripheral Devices

- Epson dot matrix printer
- barcode scanners
- WD-6 LCD display

Electrical accessories

• ZR-02 power supply with battery

Dedicated Software

R-LAB

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

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

Alibi Reader

- readout of data saved to Alibi memory
- export of data saved to Alibi memory
- data filtering and reports generating
- saving ALIBI database to CSV file

R.Barcode

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

RAD KEY

• Establishing cooperation between a weighing instrument and a computer

Radwag Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each

Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0167: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance Epson printer)
- AP2-1 power loop output
- IN/OUT cables

Draft shields and anti-draft chambers

• storage case for PM 10 kg, PM 15 kg, PM 35 kg, PM 50kg, PM.KB balances

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
 operating system

LabView Driver

• operation of RADWAG balances in LabView environment