Technical data (limit values)

| Model | AX204DR | AX304 | AX504 |
|---|----------------------|----------------------|----------------------|
| Maximum load | 220 g | 310 g | 510 g |
| Maximum load, fine range | 81 g | _ | _ |
| Readability | 1 mg | 0.1 mg | 0.1 mg |
| Readability, fine range | 0.1 mg | _ | _ |
| Repeatability (sd) at full load 1) | 0.6 mg | 0.1 mg | 0.1 mg |
| Repeatability (sd) (at gross load) 1) | 0.05 mg (10 g) | 0.07 mg (10 g) | 0.07 mg (10 g) |
| Linearity | 0.3 mg | 0.3 mg | 0.4 mg |
| Eccentric load deviation at 1/2 maximum capacity 2) | 0.25 mg | 0.5 mg | 0.6 mg |
| Sensitivity offset 3) | 3.0x10 ⁻⁶ | 5.0x10 ⁻⁶ | 5.0x10 ⁻⁶ |
| Sensitivity temperatur driff 4) | 0.0001%/°C | 0.0001%/°C | 0.0001%/°C |
| Sensitivity stability 5) | 0.0001%/a | 0.0001%/a | 0.0001%/a |
| Weighing time typical ⁶⁾ | 4 s | 4 s | 4 s |
| Interface update rate | 7 /s | 7 /s | 7 /s |
| Balance dimensions (WxDxH) (mm) | 241x505x293 | 241x505x293 | 241x505x293 |
| Control unit dimensions (WxDxH) (mm) | _ | _ | _ |
| Usable height of draft shield | 240 mm | 240 mm | 240 mm |
| Weighing pan dimensions (WxD) (mm) | 80 x 80 | 80 x 80 | 80 x 80 |

Typical data for determination of the measurement uncertainty

| Repeatability (sd) typical | 0.4 mg + 5x10 ⁻⁷ • R _{gr} | 0.04 mg + 6x10 ⁻⁸ • R _{gr} | 0.04 mg + 6x10 ⁻⁸ • R _{gr} |
|--|--|---|---|
| Repeatability (sd) in fine range typical 7) | 0.04 mg + 1.2x10 ⁻⁷ • R _{gr} | _ | _ |
| Differential nonlinearity (sd) typical | $\sqrt{1\times10^{-11}} \bullet R_{nf}$ | √8x10 ⁻¹² • R _{nt} | √8x10 ⁻¹² • R _{nt} |
| Diff. eccentric load deviation (sd) typical | 2.5x10 ⁻⁷ • R _{nt} | 2.5x10 ⁻⁷ • R _{nf} | 2x10 ⁻⁷ • R _{nt} |
| Sensitivity offset (sd) typical 3) | 6x10 ⁻⁷ • R _{nt} | 6x10 ⁻⁷ • R _{nt} | 8x10 ⁻⁷ • R _{nt} |
| Minimum weight (according to USP) typical 8) | 1200 mg + 1.5x10 ⁻³ • R _{gr} | 120 mg + 1.8x10 ⁻⁴ • R _{gr} | 120 mg + 1.8x10 ⁻⁴ • R _{gr} |
| Minimum weight (according to USP) in fine range typical 7) | 120 mg + 3.6x10 ⁻⁴ • R _{gr} | _ | _ |
| Minimum weight (@ U=1&, 2 sd) typical | 80 mg + 1x10 ⁻⁴ • R _{gr} | 8 mg + 1.2x10 ⁻⁵ • R _{gr} | 8 mg + 1.2x10 ⁻⁵ • R _{gr} |
| Minimum weight (@ U=1&, 2 sd) in fine range typical 7) | 8 mg + 2.4x10 ⁻⁵ • R _{gr} | _ | _ |

- 1) Valid for compact ojects
- ²⁾ According to OIML R76
- 3) After adjustment with built-in reference weight
- $^{\rm 4)}$ In the temperature range 10...30 °C
- 5) Sensitivity drift/year after putting into operation for the first time, with the FACT self-calibration function activated
- 6) Includes sample handling and setting time
- With DeltaRange models: Fine range starting at zero gross load
- sd = Standard deviation
- Rgr = Gross weight
- Rnt = Net weight (sample weight)
- a = Year (annum)
 - The minimum weight can be improved by the following measures:
 - Selecting suitable weighing parameters
 - Choosing a better location
 - Using smaller taring containers
 - Using an inner draft shield (AX)

The information contained in this document has been carefully prepared and represents the most up-to-date status. Data shown as typical are reference values for calculation of the expected measurement uncertainty. The actual measurement performance may be affected negatively or positively by the place of use and/or the settings.