



More information on the website
radwag.com/en/info,w1,U2C

MA 110.X7.A Moisture Analyzer, MA 200/1.X7.A Moisture Analyzer, MA 50.X7.A.WH Moisture Analyzer, MA 210.X7.A.WH Moisture Analyzer, MA 50.X7.A.NS Moisture Analyzer, MA 200/1.X7.A.WH Moisture Analyzer, MA 50/1.X7.A.NS Moisture Analyzer, MA 50/1.X7.A.WH Moisture Analyzer, MA 210.X7.A Moisture Analyzer, MA 200/1.X7.A.NS Moisture Analyzer, MA 110.X7.A.WH Moisture Analyzer, MA 50/1.X7.A Moisture Analyzer, MA 50.X7.A Moisture Analyzer, MA 210.X7.A.NS Moisture Analyzer, MA 110.X7.A.NS Moisture Analyzer



MA 110.X7.A Moisture Analyzer
 MA 50.X7.A.WH Moisture Analyzer
 MA 210.X7.A.WH Moisture Analyzer
 MA 50.X7.A.NS Moisture Analyzer
 MA 210.X7.A Moisture Analyzer
 MA 110.X7.A.WH Moisture Analyzer
 MA 50.X7.A Moisture Analyzer
 MA 210.X7.A.NS Moisture Analyzer
 MA 110.X7.A.NS Moisture Analyzer

MA 200/1.X7.A Moisture Analyzer
 MA 200/1.X7.A.WH Moisture Analyzer
 MA 50/1.X7.A.NS Moisture Analyzer
 MA 50/1.X7.A.WH Moisture Analyzer
 MA 200/1.X7.A.NS Moisture Analyzer
 MA 50/1.X7.A Moisture Analyzer

The drawings, photos and graphics used are for illustrative purposes only.

Functions



Autotest



Statistics



IR sensors



GLP Procedures



Replaceable unit



Statistical Quality Control



ALIBI Memory



Drying modes



Samples drying



Moisture content analysis



Dry mass determination



Wi-Fi

Datasheet

| | MA 50/1.X7.A Moisture Analyzer WL-308-0024 | MA 50/1.X7.A.NS Moisture Analyzer WL-308-0025 | MA 50/1.X7.A.WH Moisture Analyzer WL-308-0026 |
|--|---|---|---|
| Metrological parameters | | | |
| Maximum capacity [Max] | 50 g | 50 g | 50 g |
| Readability [d] | 0,1 mg | 0,1 mg | 0,1 mg |
| Tare range | -50 g | -50 g | -50 g |
| Linearity | — | — | — |
| Stabilization time | — | — | — |
| Adjustment | external | external | external |
| Maximum sample weight | 50 g | 50 g | 50 g |
| Heating module | IR emitter | metal heater | halogen |
| Moisture content repeatability | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) |
| Moisture content readability | 0,0001 % | 0,0001 % | 0,0001 % |
| Drying temperature range | Max 160 °C | Max 160 °C | Max 250 °C |
| Physical parameters | | | |
| Leveling system | manual | manual | manual |
| Display | 7" graphic colour touchscreen | 7" graphic colour touchscreen | 7" graphic colour touchscreen |
| Weighing chamber | automatic | automatic | automatic |
| Maximum sample height | 20 mm | 20 mm | 20 mm |
| Weighing pan dimensions | ø90, h= 8 mm | ø90, h= 8 mm | ø90, h= 8 mm |
| Packaging dimensions W x D x H | 476×381×346 mm | 476×381×346 mm | 476×381×346 mm |
| Net weight | 5,2 kg | 5,2 kg | 5,2 kg |
| Gross weight | 6,5 kg | 6,5 kg | 6,5 kg |
| Construction | | | |
| Protection class | IP 43 | IP 43 | IP 43 |
| Components and software | | | |
| Database capacity | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings |
| Features of use | | | |
| Display mode | %D, %M, %R, g | %D, %M, %R, g | %D, %M, %R, g |
| Drying method | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) |
| Additional functions | sample traceability | sample traceability | sample traceability |
| Communication interface | | | |
| Communication interface | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi |
| Electrical parameters | | | |
| Power supply | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz |
| Power consumption | 6 W | 6 W | 6 W |
| Heating module power | 450 W | 450 W | 450 W |
| Environmental conditions | | | |
| Operating temperature | +10 – +40 °C | +10 – +40 °C | +10 – +40 °C |
| SOP – metrological tests (additional options) | | | |
| Drying temperature control | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) |
| Moisture content indication control | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) |

1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

Datasheet

| | MA 50.X7.A Moisture Analyzer WL-308-0014 | MA 50.X7.A.NS Moisture Analyzer WL-308-0015 | MA 50.X7.A.WH Moisture Analyzer WL-308-0016 |
|--|---|---|---|
| Metrological parameters | | | |
| Maximum capacity [Max] | 50 g | 50 g | 50 g |
| Readability [d] | 1 mg | 1 mg | 1 mg |
| Tare range | -50 g | -50 g | -50 g |
| Linearity | — | — | — |
| Stabilization time | | | |
| Adjustment | external | external | external |
| Maximum sample weight | 50 g | 50 g | 50 g |
| Heating module | IR emitter | steel heater | halogen |
| Moisture content repeatability | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) |
| Moisture content readability | 0,001 % | 0,001 % | 0,001 % |
| Drying temperature range | Max 160 °C | Max 160 °C | Max 250 °C |
| Physical parameters | | | |
| Leveling system | manual | manual | manual |
| Display | 7" graphic colour touchscreen | 7" graphic colour touchscreen | 7" graphic colour touchscreen |
| Weighing chamber | automatic | automatic | automatic |
| Maximum sample height | 20 mm | 20 mm | 20 mm |
| Weighing pan dimensions | ø90, h= 8 mm | ø90, h= 8 mm | ø90, h= 8 mm |
| Packaging dimensions W x D x H | 476×381×346 mm | 476×381×346 mm | 476×381×346 mm |
| Net weight | 5,2 kg | 5,2 kg | 5,2 kg |
| Gross weight | 6,5 kg | 6,7 kg | 6,5 kg |
| Construction | | | |
| Protection class | IP 43 | IP 43 | IP 43 |
| Components and software | | | |
| Database capacity | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings |
| Features of use | | | |
| Display mode | %D, %M, %R, g | %D, %M, %R, g | %D, %M, %R, g |
| Drying method | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) |
| Additional functions | sample traceability | sample traceability | sample traceability |
| Communication interface | | | |
| Communication interface | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi |
| Electrical parameters | | | |
| Power supply | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz |
| Power consumption | 6 W | 6 W | 6 W |
| Heating module power | 450 W | 450 W | 450 W |
| Environmental conditions | | | |
| Operating temperature | +10 – +40 °C | +10 – +40 °C | +10 – +40 °C |
| SOP – metrological tests (additional options) | | | |
| Drying temperature control | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) |
| Moisture content indication control | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) |

1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

Datasheet

| | MA 110.X7.A Moisture Analyzer WL-308-0003 | MA 110.X7.A.NS Moisture Analyzer WL-308-0004 | MA 110.X7.A.WH Moisture Analyzer WL-308-0005 |
|--|---|---|---|
| Metrological parameters | | | |
| Maximum capacity [Max] | 110 g | 110 g | 110 g |
| Readability [d] | 1 mg | 1 mg | 1 mg |
| Tare range | -110 g | -110 g | -110 g |
| Linearity | — | — | ±0,003 g |
| Stabilization time | | | max 3 s |
| Adjustment | external | external | external |
| Maximum sample weight | 110 g | 110 g | 110 g |
| Heating module | IR emitter | steel heater | halogen |
| Moisture content repeatability | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) |
| Moisture content readability | 0,001 % | 0,001 % | 0,001 % |
| Drying temperature range | Max 160 °C | Max 160 °C | Max 250 °C |
| Physical parameters | | | |
| Leveling system | manual | manual | manual |
| Display | 7" graphic colour touchscreen | 7" graphic colour touchscreen | 7" graphic colour touchscreen |
| Weighing chamber | automatic | automatic | automatic |
| Maximum sample height | 20 mm | 20 mm | 20 mm |
| Weighing pan dimensions | ø90, h= 8 mm | ø90, h= 8 mm | ø90, h= 8 mm |
| Packaging dimensions W x D x H | 476×381×346 mm | 476×381×346 mm | 476×381×346 mm |
| Net weight | 5,2 kg | 5,2 kg | 5,2 kg |
| Gross weight | 6,5 kg | 6,7 kg | 6,5 kg |
| Construction | | | |
| Protection class | IP 43 | IP 43 | IP 43 |
| Components and software | | | |
| Database capacity | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings |
| Features of use | | | |
| Display mode | %D, %M, %R, g | %D, %M, %R, g | %D, %M, %R, g |
| Drying method | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) |
| Additional functions | sample traceability | sample traceability | sample traceability |
| Communication interface | | | |
| Communication interface | 2×RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | 2×RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | 2×RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi |
| Electrical parameters | | | |
| Power supply | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz |
| Power consumption | 6 W | 6 W | 6 W |
| Heating module power | 450 W | 450 W | 450 W |
| Environmental conditions | | | |
| Operating temperature | +10 – +40 °C | +10 – +40 °C | +10 – +40 °C |
| SOP – metrological tests (additional options) | | | |
| Drying temperature control | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) |
| Moisture content indication control | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) |

1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

Datasheet

| | MA 200/1.X7.A.NS Moisture Analyzer WL-308-0033 | MA 200/1.X7.A.WH Moisture Analyzer WL-308-0034 | MA 200/1.X7.A Moisture Analyzer WL-308-0032 |
|--|---|---|---|
| Metrological parameters | | | |
| Maximum capacity [Max] | 200 g | 200 g | 200 g |
| Readability [d] | 0,1 mg | 0,1 mg | 0,1 mg |
| Tare range | -200 g | -200 g | -200 g |
| Linearity | — | — | — |
| Stabilization time | | | |
| Adjustment | external | external | external |
| Maximum sample weight | 200 g | 200 g | 200 g |
| Heating module | steel heater | halogen | IR emitter |
| Moisture content repeatability | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) |
| Moisture content readability | 0,0001 % | 0,0001 % | 0,0001 % |
| Drying temperature range | Max 160 °C | Max 250 °C | Max 160 °C |
| Physical parameters | | | |
| Leveling system | manual | manual | manual |
| Display | 7" graphic colour touchscreen | 7" graphic colour touchscreen | 7" graphic colour touchscreen |
| Weighing chamber | automatic | automatic | automatic |
| Maximum sample height | 20 mm | 20 mm | 20 mm |
| Weighing pan dimensions | ø90, h= 8 mm | ø90, h= 8 mm | ø90, h= 8 mm |
| Packaging dimensions W x D x H | 476×381×346 mm | 476×381×346 mm | 476×381×346 mm |
| Net weight | 5,2 kg | 5,2 kg | 5,2 kg |
| Gross weight | 6,7 kg | 6,7 kg | 6,5 kg |
| Construction | | | |
| Protection class | IP 43 | IP 43 | IP 43 |
| Components and software | | | |
| Database capacity | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings |
| Features of use | | | |
| Display mode | %D, %M, %R, g | %D, %M, %R, g | %D, %M, %R, g |
| Drying method | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) |
| Additional functions | sample traceability | sample traceability | sample traceability |
| Communication interface | | | |
| Communication interface | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi |
| Electrical parameters | | | |
| Power supply | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz |
| Power consumption | 6 W | 6 W | 6 W |
| Heating module power | 450 W | 450 W | 450 W |
| Environmental conditions | | | |
| Operating temperature | +10 – +40 °C | +10 – +40 °C | +10 – +40 °C |
| SOP – metrological tests (additional options) | | | |
| Drying temperature control | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) |
| Moisture content indication control | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) |

1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

Datasheet

| | MA 210.X7.A Moisture Analyzer WL-308-0039 | MA 210.X7.A.NS Moisture Analyzer WL-308-0040 | MA 210.X7.A.WH Moisture Analyzer WL-308-0041 |
|--|---|---|---|
| Metrological parameters | | | |
| Maximum capacity [Max] | 210 g | 210 g | 210 g |
| Readability [d] | 1 mg | 1 mg | 1 mg |
| Tare range | -210 g | -210 g | -210 g |
| Linearity | — | — | — |
| Stabilization time | | | |
| Adjustment | external | external | external |
| Maximum sample weight | 210 g | 210 g | 210 g |
| Heating module | IR emitter | steel heater | halogen |
| Moisture content repeatability | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) | ±0,05 % (sample ~ 2 g), ±0,01 % (sample ~ 10 g) |
| Moisture content readability | 0,001 % | 0,001 % | 0,001 % |
| Drying temperature range | Max 160 °C | Max 160 °C | Max 250 °C |
| Physical parameters | | | |
| Leveling system | manual | manual | manual |
| Display | 7" graphic colour touchscreen | 7" graphic colour touchscreen | 7" graphic colour touchscreen |
| Weighing chamber | automatic | automatic | automatic |
| Maximum sample height | 20 mm | 20 mm | 20 mm |
| Weighing pan dimensions | ø90, h= 8 mm | ø90, h= 8 mm | ø90, h= 8 mm |
| Packaging dimensions W x D x H | 476×381×346 mm | 476×381×346 mm | 476×381×346 mm |
| Net weight | 5,2 kg | 5,2 kg | 5,2 kg |
| Gross weight | 6,7 kg | 6,7 kg | 6,5 kg |
| Construction | | | |
| Protection class | IP 43 | IP 43 | IP 43 |
| Components and software | | | |
| Database capacity | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings | Products, Users, Packaging, Customers, Drying programs, Drying process reports, Ambient Conditions, Weighings |
| Features of use | | | |
| Display mode | %D, %M, %R, g | %D, %M, %R, g | %D, %M, %R, g |
| Drying method | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) | 4 drying profiles (standard, fast, step, mild) |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) | 4 modes (automatic, manual, time-defined, user-defined) |
| Additional functions | sample traceability | sample traceability | sample traceability |
| Communication interface | | | |
| Communication interface | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi | RS232 ¹ , USB-A, USB-B, Ethernet, Wi-Fi |
| Electrical parameters | | | |
| Power supply | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz | 100 – 120 V AC 50/60 Hz or 200-240 V AC 50/60 Hz |
| Power consumption | 6 W | 6 W | 6 W |
| Heating module power | 450 W | 450 W | 450 W |
| Environmental conditions | | | |
| Operating temperature | +10 – +40 °C | +10 – +40 °C | +10 – +40 °C |
| SOP – metrological tests (additional options) | | | |
| Drying temperature control | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) | One- or two-point, depending on the drying profile (additional equipment: GT105k-12/Z Control Thermometer) |
| Moisture content indication control | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) | Certified MV Test Set (additional equipment) |

1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



Accessories (Additional Fee)

Antivibration Tables
Moisture analyzer accessories
Barcode scanners
Protective cover for balances
Receipt Printer

RS 232, RS 485 cables
Additional modules
RS 232 cables (scale - printer)
RS 232 – RS 485 Converter

Software (Additional Fee)

RAD-KEY
Alibi Reader
RADWAG Development Studio

E2R System
Scales Editor 2.1

Device dimensions W x D x H

MA 110.X7.A Moisture Analyzer, MA 200/1.X7.A Moisture Analyzer, MA 50.X7.A.WH Moisture Analyzer, MA 210.X7.A.WH Moisture Analyzer, MA 50.X7.A.NS Moisture Analyzer, MA 200/1.X7.A.WH Moisture Analyzer, MA 50/1.X7.A.NS Moisture Analyzer, MA 50/1.X7.A.WH Moisture Analyzer, MA 210.X7.A Moisture Analyzer, MA 200/1.X7.A.NS Moisture Analyzer, MA 110.X7.A.WH Moisture Analyzer, MA 50/1.X7.A Moisture Analyzer, MA 50.X7.A Moisture Analyzer, MA 210.X7.A.NS Moisture Analyzer, MA 110.X7.A.NS Moisture Analyzer

