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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.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	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	0,001 %	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	5,16 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 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	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	0,0001 %	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	6,7 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)

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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	7 kg	6,7 kg	6,7 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)

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Datasheet

	MA 200/1.X7.A Moisture Analyzer WL-308-0032	MA 200/1.X7.A.NS Moisture Analyzer WL-308-0033	MA 200/1.X7.A.WH Moisture Analyzer WL-308-0034
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	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	0,0001 %	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	6,7 kg	6,7 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)

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Datasheet

	MA 210.X7.A.WH Moisture Analyzer WL-308-0041	MA 210.X7.A Moisture Analyzer WL-308-0039	MA 210.X7.A.NS Moisture Analyzer WL-308-0040
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	halogen	IR emitter	steel heater
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 250 °C	Max 160 °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	6,7 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)

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* 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

