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MA 50/1.R.NS Moisture Analyzer, MA 50.R.WH Moisture Analyzer, MA 110.R Moisture Analyzer, MA 50/1.R.WH Moisture Analyzer, MA 210.R Moisture Analyzer, MA 110.R.NS Moisture Analyzer, MA 50.R Moisture Analyzer, MA 210.R.WH Moisture Analyzer, MA 50/1.R Moisture Analyzer, MA 50.R.NS Moisture Analyzer, MA 110.R.WH Moisture Analyzer, MA 210.R.NS Moisture Analyzer



MA 50/1.R.NS Moisture Analyzer
MA 50.R.WH Moisture Analyzer
MA 110.R Moisture Analyzer
MA 50/1.R.WH Moisture Analyzer
MA 210.R Moisture Analyzer
MA 110.R.NS Moisture Analyzer
MA 50.R Moisture Analyzer
MA 210.R.WH Moisture Analyzer
MA 50/1.R Moisture Analyzer
MA 50.R.NS Moisture Analyzer
MA 110.R.WH Moisture Analyzer
MA 210.R.NS Moisture Analyzer

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

Functions



Drying modes



Samples drying



Moisture content
analysis



Dry mass determination

Datasheet

	MA 50/1.R Moisture Analyzer	MA 50/1.R.WH Moisture Analyzer	MA 50.R Moisture Analyzer
Metrological parameters			
Maximum capacity [Max]	50 g	50 g	50 g
Readability [d]	0,1 mg	0,1 mg	1 mg
Tare range	-50 g	-50 g	-50 g
Adjustment	external	external	external
Maximum sample weight	50 g	50 g	50 g
Heating module	IR emitter	halogen	IR emitter
Moisture content repeatability	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)
Moisture content readability	0,0001%	0,0001%	0,001%
Drying temperature range	max 160 °C	max 250 °C	max 160 °C
Physical parameters			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
Protection class	IP 43	IP 43	IP 43
Weighing pan dimensions	ø90, h= 8 mm	ø90, h= 8 mm	ø90, h= 8 mm
Packaging dimensions	470×380×336 mm	470×380×336 mm	381×346×476 mm
Net weight	4,8 kg	4,8 kg	4,8 kg
Gross weight	6,3 kg	6,3 kg	6,3 kg
Communication interface			
Communication interface	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi
Electrical parameters			
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Power consumption	4 W	4 W	4 W
Heating module power	450 W	450 W	450 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Features of use			
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

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

Datasheet

	MA 50.R.WH Moisture Analyzer	MA 50/1.R.NS Moisture Analyzer	MA 50.R.NS Moisture Analyzer
Metrological parameters			
Maximum capacity [Max]	50 g	50 g	50 g
Readability [d]	1 mg	0,1 mg	1 mg
Tare range	-50 g	-50 g	-50 g
Adjustment	external	external	external
Maximum sample weight	50 g	50 g	50 g
Heating module	halogen	steel heater	steel heater
Moisture content repeatability	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)
Moisture content readability	0,001%	0,0001%	0,001%
Drying temperature range	max 250 °C	max 160 °C	max 160 °C
Physical parameters			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
Protection class	IP 43	IP 43	IP 43
Weighing pan dimensions	ø90, h= 8 mm	ø90, h= 8 mm	ø90, h= 8 mm
Packaging dimensions	381×346×476 mm	470×380×336 mm	381×346×476 mm
Net weight	4,8 kg	4,8 kg	4,8 kg
Gross weight	6,3 kg	6,3 kg	6,3 kg
Communication interface			
Communication interface	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi
Electrical parameters			
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Power consumption	4 W	4 W	4 W
Heating module power	450 W	450 W	450 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Features of use			
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

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

Datasheet

	MA 110.R Moisture Analyzer	MA 110.R.WH Moisture Analyzer	MA 110.R.NS Moisture Analyzer
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
Adjustment	external	external	external
Maximum sample weight	110 g	110 g	110 g
Heating module	IR emitter	halogen	steel heater
Moisture content repeatability	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)
Moisture content readability	0,001%	0,001%	0,001%
Drying temperature range	max 160 °C	max 250 °C	max 160 °C
Physical parameters			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
Protection class	IP 43	IP 43	IP 43
Weighing pan dimensions	ø90, h= 8 mm	ø90, h= 8 mm	ø90, h= 8 mm
Packaging dimensions	470×380×336 mm	470×380×336 mm	470×380×336 mm
Net weight	4,8 kg	4,8 kg	4,8 kg
Gross weight	6,3 kg	6,3 kg	6,3 kg
Communication interface			
Communication interface	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi
Electrical parameters			
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Power consumption	4 W	4 W	4 W
Heating module power	450 W	450 W	450 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Features of use			
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

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

Datasheet

	MA 210.R.NS Moisture Analyzer	MA 210.R Moisture Analyzer	MA 210.R.WH Moisture Analyzer
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
Adjustment	external	external	external
Maximum sample weight	210 g	210 g	210 g
Heating module	steel heater	IR emitter	halogen
Moisture content repeatability	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)
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	LCD (backlit)	LCD (backlit)	LCD (backlit)
Protection class	IP 43	IP 43	IP 43
Weighing pan dimensions	ø90, h= 8 mm	ø90, h= 8 mm	ø90, h= 8 mm
Packaging dimensions	470×380×336 mm	470×380×336 mm	470×380×336 mm
Net weight	4,8 kg	4,8 kg	4,8 kg
Gross weight	6,3 kg	6,3 kg	6,3 kg
Communication interface			
Communication interface	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi	RS232 ¹ , USB-A, USB-B, Wi-Fi
Electrical parameters			
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Power consumption	4 W	4 W	4 W
Heating module power	450 W	450 W	450 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Features of use			
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

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

Barcode scanners
Protective cover for balances
Moisture analyzer accessories
Balance Storage Case
Antivibration Tables

Water Vapour Permeability Determination Set
Receipt Printer
RS 232, RS 485 cables
RS 232 cables (scale - printer)

Software

RAD-KEY
E2R System
RADWAG Development Studio

LabVIEW Driver
Alibi Reader

Device dimensions

MA 50/1.R.NS Moisture Analyzer, MA 50.R.WH Moisture Analyzer, MA 110.R Moisture Analyzer, MA 50/1.R.WH Moisture Analyzer, MA 210.R Moisture Analyzer, MA 110.R.NS Moisture Analyzer, MA 50.R Moisture Analyzer, MA 210.R.WH Moisture Analyzer, MA 50/1.R Moisture Analyzer, MA 50.R.NS Moisture Analyzer, MA 110.R.WH Moisture Analyzer, MA 210.R.NS Moisture Analyzer

