



More information on the website  
[radwag.com/en/info,w1,DMO](http://radwag.com/en/info,w1,DMO)

# PMV 50.5Y Moisture Analyzer



## Functions



Drying modes



Samples drying



Moisture content analysis



Dry mass determination



Microwave drying

## Datasheet

### Metrological parameters

Maximum capacity [Max]	50 g
Readability [d]	0,1 mg
Tare range	-50 g
Adjustment	external
Maximum sample weight	50 g
Heating module	microwave radiation emitter
Moisture content readability	0,0001%

### Physical parameters

Display	10" touchscreen
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Physical parameters	
Protection class	IP 43
Packaging dimensions	670×510×570 mm
Communication interface	
Communication interface	USB-A x2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters	
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Heating module power	800 W
Environmental conditions	
Operating temperature	+10 ÷ +40 °C
Features of use	
Finish mode	4 modes (automatic, manual, time-defined, user-defined)
Weighing pan material	glass fibre filter ø 90 mm
1 100-130 V AC 50/60 Hz (version A) 200-240 V AC 50/60 Hz (version B)	

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



## Accessories

Antivibration Tables  
Barcode scanners  
Moisture analyzer accessories  
Balance Storage Case

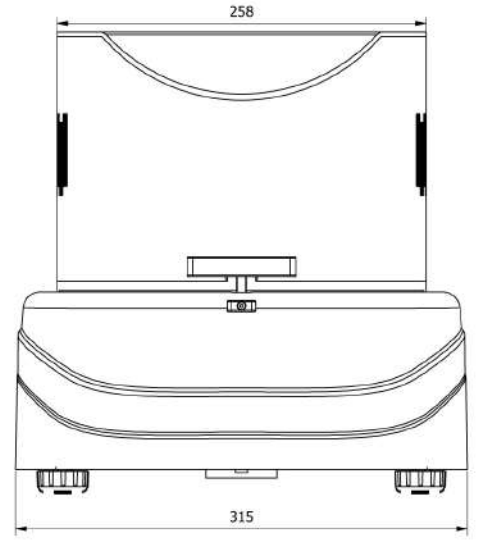
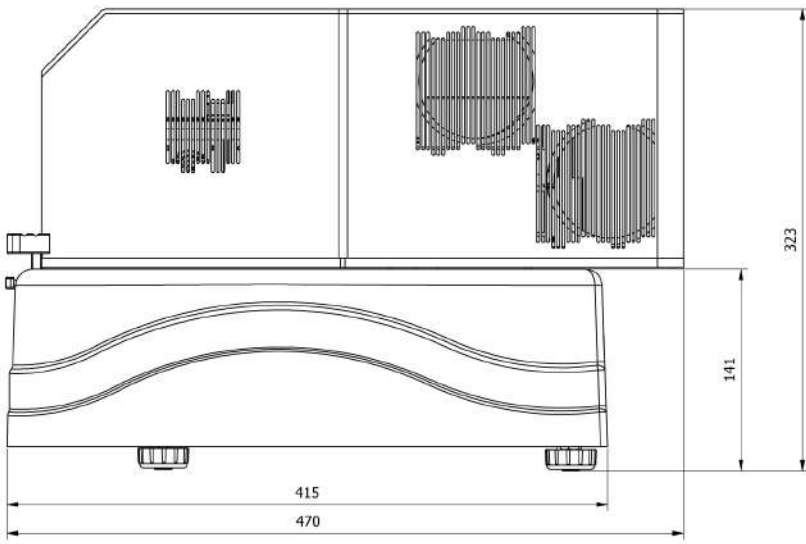
Fingerprint Reader  
RS 232, RS 485 cables  
RS 232 – USB Converter  
RS 232 cables (scale - printer)

## Software

RAD-KEY  
E2R System  
RADWAG Development Studio

LabVIEW Driver  
Scales Editor 2.1

## Device dimensions





More information on the website  
[radwag.com/en/info,w1,BAM](http://radwag.com/en/info,w1,BAM)

MA 110.X2.A.NS Moisture Analyzer, MA 50/1.X2.A Moisture Analyzer, MA 50.X2.A.NS Moisture Analyzer, MA 50.X2.A.WH Moisture Analyzer, MA 200/1.X2.A.NS Moisture Analyzer, MA 210.X2.A Moisture Analyzer, MA 110.X2.A.WH Moisture Analyzer, MA 50.X2.A Moisture Analyzer, MA 210.X2.A.WH Moisture Analyzer, MA 50/1.X2.A.NS Moisture Analyzer, MA 200/1.X2.A.WH Moisture Analyzer, MA 210.X2.A.NS Moisture Analyzer, MA 200/1.X2.A Moisture Analyzer, MA 110.X2.A Moisture Analyzer, MA 50/1.X2.A.WH Moisture Analyzer



MA 110.X2.A.NS Moisture Analyzer  
 MA 50.X2.A.NS Moisture Analyzer  
 MA 50.X2.A.WH Moisture Analyzer  
 MA 210.X2.A Moisture Analyzer  
 MA 110.X2.A.WH Moisture Analyzer  
 MA 50.X2.A Moisture Analyzer  
 MA 210.X2.A.WH Moisture Analyzer  
 MA 210.X2.A.NS Moisture Analyzer  
 MA 110.X2.A Moisture Analyzer

MA 50/1.X2.A Moisture Analyzer  
 MA 200/1.X2.A.NS Moisture Analyzer  
 MA 50/1.X2.A.NS Moisture Analyzer  
 MA 200/1.X2.A.WH Moisture Analyzer  
 MA 200/1.X2.A Moisture Analyzer  
 MA 50/1.X2.A.WH Moisture Analyzer

## Functions



Autotest



Dosing



Percent Weighing



Parts counting



Peak hold



Formulation



Newton unit measurement



Statistics



Checkweighing



IR sensors



GLP Procedures



Animal weighing



Density determination



Ambient conditions monitoring



Replaceable unit



Statistical Quality Control



ALIBI Memory



Drying modes



Samples drying



Moisture content analysis



Dry mass determination



Mass for titrator



Wi-Fi

# Datasheet

	MA 50.X2.A.WH Moisture Analyzer	MA 50/1.X2.A.NS Moisture Analyzer	MA 50.X2.A.NS Moisture Analyzer
<b>Metrological parameters</b>			
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	metal heater	metal 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
<b>Physical parameters</b>			
Levelling system	manual	manual	manual
Display	—	—	—
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	5,2 kg	5,2 kg	5,2 kg
Gross weight	6,7 kg	6,7 kg	6,7 kg
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi
<b>Electrical parameters</b>			
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	6 W	6 W	6 W
Heating module power	450 W	450 W	450 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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 50/1.X2.A Moisture Analyzer	MA 50.X2.A Moisture Analyzer	MA 50/1.X2.A.WH Moisture Analyzer
<b>Metrological parameters</b>			
Maximum capacity [Max]	50 g	50 g	50 g
Readability [d]	0,1 mg	1 mg	0,1 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	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	0,0001%	0,001%	0,0001%
Drying temperature range	max 160 °C	max 160 °C	max 250 °C
<b>Physical parameters</b>			
Levelling system	manual	manual	manual
Display	—	—	—
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	5,2 kg	5,2 kg	5,2 kg
Gross weight	6,7 kg	6,7 kg	6,7 kg
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi
<b>Electrical parameters</b>			
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	6 W	6 W	6 W
Heating module power	450 W	450 W	450 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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

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

# Datasheet

	MA 110.X2.A.WH Moisture Analyzer	MA 110.X2.A.NS Moisture Analyzer	MA 110.X2.A Moisture Analyzer
<b>Metrological parameters</b>			
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	halogen	metal heater	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	0,001%	0,001%	0,001%
Drying temperature range	max 250 °C	max 160 °C	max 160 °C
<b>Physical parameters</b>			
Levelling system	manual	manual	manual
Display	—	—	—
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	5,2 kg	5,2 kg	5,2 kg
Gross weight	6,7 kg	6,7 kg	6,7 kg
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi
<b>Electrical parameters</b>			
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	6 W	6 W	6 W
Heating module power	450 W	450 W	450 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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

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

# Datasheet

	MA 200/1.X2.A Moisture Analyzer	MA 200/1.X2.A.WH Moisture Analyzer	MA 200/1.X2.A.NS Moisture Analyzer
<b>Metrological parameters</b>			
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
Adjustment	external	external	external
Maximum sample weight	200 g	200 g	200 g
Heating module	IR emitter	halogen	metal 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	0,0001%	0,0001%	0,0001%
Drying temperature range	max 160 °C	max 250 °C	max 160 °C
<b>Physical parameters</b>			
Levelling system	manual	manual	manual
Display	—	—	—
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	5,2 kg	5,2 kg	5,2 kg
Gross weight	6,7 kg	6,7 kg	6,7 kg
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi
<b>Electrical parameters</b>			
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	6 W	6 W	6 W
Heating module power	450 W	450 W	450 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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

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

# Datasheet

	MA 210.X2.A Moisture Analyzer	MA 210.X2.A.WH Moisture Analyzer	MA 210.X2.A.NS Moisture Analyzer
<b>Metrological parameters</b>			
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	IR emitter	halogen	metal 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
<b>Physical parameters</b>			
Levelling system	manual	manual	manual
Display	—	—	—
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	5,2 kg	5,2 kg	5,2 kg
Gross weight	6,7 kg	6,7 kg	6,7 kg
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Ethernet, Wi-Fi
<b>Electrical parameters</b>			
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	6 W	6 W	6 W
Heating module power	450 W	450 W	450 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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  
 Receipt Printer  
 Balance Storage Case

Antivibration Tables  
 Water Vapour Permeability Determination Set  
 RS 232, RS 485 cables  
 RS 232 cables (scale - printer)

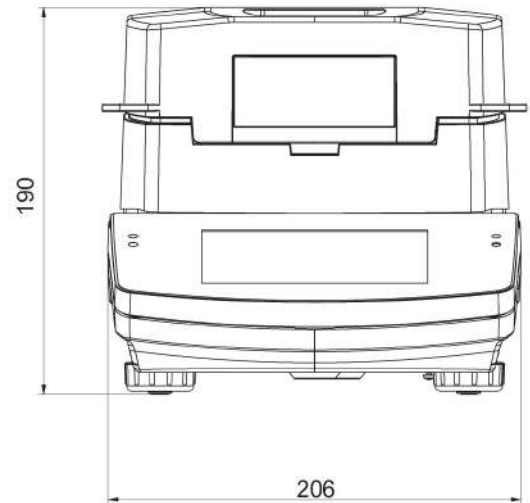
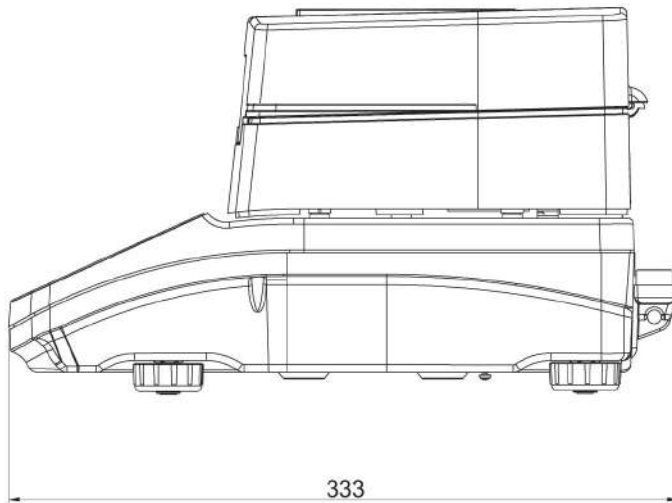
# Software

RAD-KEY  
E2R System  
RADWAG Development Studio

LabVIEW Driver  
Alibi Reader

# Device dimensions

MA 110.X2.A.NS Moisture Analyzer, MA 50/1.X2.A Moisture Analyzer, MA 50.X2.A.NS Moisture Analyzer, MA 50.X2.A.WH Moisture Analyzer, MA 200/1.X2.A.NS Moisture Analyzer, MA 210.X2.A Moisture Analyzer, MA 110.X2.A.WH Moisture Analyzer, MA 50.X2.A Moisture Analyzer, MA 210.X2.A.WH Moisture Analyzer, MA 50/1.X2.A.NS Moisture Analyzer, MA 200/1.X2.A.WH Moisture Analyzer, MA 210.X2.A.NS Moisture Analyzer, MA 200/1.X2.A Moisture Analyzer, MA 110.X2.A Moisture Analyzer, MA 50/1.X2.A.WH Moisture Analyzer





More information on the website  
[radwag.com/en/info,w1,FDP](http://radwag.com/en/info,w1,FDP)

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

## 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
<b>Metrological parameters</b>			
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
<b>Physical parameters</b>			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
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
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi
<b>Electrical parameters</b>			
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
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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

<sup>1</sup> 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
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	50 g	50 g	50 g
<b>Readability [d]</b>	1 mg	0,1 mg	1 mg
<b>Tare range</b>	-50 g	-50 g	-50 g
<b>Adjustment</b>	external	external	external
<b>Maximum sample weight</b>	50 g	50 g	50 g
<b>Heating module</b>	halogen	steel heater	steel heater
<b>Moisture content repeatability</b>	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)	+/-0,05% (sample ~ 2g), +/-0,01% (sample ~ 10g)
<b>Moisture content readability</b>	0,001%	0,0001%	0,001%
<b>Drying temperature range</b>	max 250 °C	max 160 °C	max 160 °C
<b>Physical parameters</b>			
<b>Leveling system</b>	manual	manual	manual
<b>Display</b>	LCD (backlit)	LCD (backlit)	LCD (backlit)
<b>Weighing pan dimensions</b>	ø90, h= 8 mm	ø90, h= 8 mm	ø90, h= 8 mm
<b>Packaging dimensions</b>	470×380×336 mm	470×380×336 mm	470×380×336 mm
<b>Net weight</b>	4,8 kg	4,8 kg	4,8 kg
<b>Gross weight</b>	6,3 kg	6,3 kg	6,3 kg
<b>Communication interface</b>			
<b>Communication interface</b>	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	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
<b>Power consumption</b>	4 W	4 W	4 W
<b>Heating module power</b>	450 W	450 W	450 W
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
<b>Drying method</b>	4 drying profiles (standard, fast, step, mild)	4 drying profiles (standard, fast, step, mild)	4 drying profiles (standard, fast, step, mild)
<b>Finish mode</b>	4 modes (automatic, manual, time-defined, user-defined)	4 modes (automatic, manual, time-defined, user-defined)	4 modes (automatic, manual, time-defined, user-defined)
<b>Additional functions</b>	sample traceability	sample traceability	sample traceability

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

# Datasheet

	MA 110.R.NS Moisture Analyzer	MA 110.R Moisture Analyzer	MA 110.R.WH Moisture Analyzer
<b>Metrological parameters</b>			
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	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
<b>Physical parameters</b>			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
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
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi
<b>Electrical parameters</b>			
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
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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

<sup>1</sup> 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
<b>Metrological parameters</b>			
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
<b>Physical parameters</b>			
Leveling system	manual	manual	manual
Display	LCD (backlit)	LCD (backlit)	LCD (backlit)
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
<b>Communication interface</b>			
Communication interface	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi	RS232 <sup>1</sup> , USB-A, USB-B, Wi-Fi
<b>Electrical parameters</b>			
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
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
<b>Features of use</b>			
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  
 Receipt Printer  
 Balance Storage Case

Antivibration Tables  
 Water Vapour Permeability Determination Set  
 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

