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



MA 50.X7.IC.A.NS Moisture Analyzer
MA 50/1.X7.IC.A.NS Moisture Analyzer
MA 200/1.X7.IC.A.WH Moisture Analyzer
MA 110.X7.IC.A.WH Moisture Analyzer
MA 210.X7.IC.A.WH Moisture Analyzer
MA 210.X7.IC.A Moisture Analyzer
MA 200/1.X7.IC.A.NS Moisture Analyzer
MA 210.X7.IC.A.NS Moisture Analyzer
MA 50.X7.IC.A.WH Moisture Analyzer
MA 50/1.X7.IC.A Moisture Analyzer
MA 110.X7.IC.A Moisture Analyzer
MA 110.X7.IC.A.NS Moisture Analyzer
MA 50/1.X7.IC.A.WH Moisture Analyzer
MA 200/1.X7.IC.A Moisture Analyzer
MA 50.X7.IC.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.IC.A.NS Moisture Analyzer	MA 50/1.X7.IC.A.WH Moisture Analyzer	MA 50.X7.IC.A 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	internal (automatic)	internal (automatic)	internal (automatic)
Maximum sample weight	50 g	50 g	50 g
Heating module	metal heater	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	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	476×381×346 mm	476×381×346 mm	476×381×346 mm
Net weight	5,3 kg	5,3 kg	5,3 kg
Gross weight	6,8 kg	7 kg	6,5 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Features of use			
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
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	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
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
SOP – metrological tests			
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report	For .IC models only, GLP report	For .IC models only, GLP report
External adjustment	For all models, GLP report	For all models, GLP report	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set	Certified MV Test Set	Certified MV Test Set
Adjustment			
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report

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

Datasheet

	MA 50.X7.IC.A.NS Moisture Analyzer	MA 50.X7.IC.A.WH Moisture Analyzer	MA 50/1.X7.IC.A Moisture Analyzer
Metrological parameters			
Maximum capacity [Max]	50 g	50 g	50 g
Readability [d]	1 mg	1 mg	0,1 mg
Tare range	-50 g	-50 g	-50 g
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
Maximum sample weight	50 g	50 g	50 g
Heating module	steel heater	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	0,001%	0,001%	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	476×381×346 mm	476×381×346 mm	476×381×346 mm
Net weight	5,3 kg	5,3 kg	5,3 kg
Gross weight	6,8 kg	6,8 kg	6,8 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Features of use			
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
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	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
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
SOP – metrological tests			
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report	For .IC models only, GLP report	For .IC models only, GLP report
External adjustment	For all models, GLP report	For all models, GLP report	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set	Certified MV Test Set	Certified MV Test Set
Adjustment			
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report

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

Datasheet

	MA 110.X7.IC.A Moisture Analyzer	MA 110.X7.IC.A.NS Moisture Analyzer	MA 110.X7.IC.A.WH 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	internal (automatic)	internal (automatic)	internal (automatic)
Maximum sample weight	110 g	110 g	110 g
Heating module	IR emitter	steel heater	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	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	476×381×346 mm	476×381×346 mm	476×381×346 mm
Net weight	5,3 kg	5,3 kg	5,3 kg
Gross weight	6,8 kg	6,8 kg	6,8 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Features of use			
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
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, 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	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
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
SOP – metrological tests			
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report	For .IC models only, GLP report	For .IC models only, GLP report
External adjustment	For all models, GLP report	For all models, GLP report	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set	Certified MV Test Set	Certified MV Test Set
Adjustment			
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report

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

Datasheet

	MA 200/1.X7.IC.A.WH Moisture Analyzer	MA 200/1.X7.IC.A Moisture Analyzer	MA 200/1.X7.IC.A.NS Moisture Analyzer
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
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
Maximum sample weight	200 g	200 g	200 g
Heating module	halogen	IR emitter	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	0,0001%	0,0001%	0,0001%
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	476×381×346 mm	476×381×346 mm	476×381×346 mm
Net weight	5,3 kg	5,3 kg	5,3 kg
Gross weight	6,8 kg	6,8 kg	6,8 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Features of use			
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
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	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
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
SOP – metrological tests			
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report	For .IC models only, GLP report	For .IC models only, GLP report
External adjustment	For all models, GLP report	For all models, GLP report	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set	Certified MV Test Set	Certified MV Test Set
Adjustment			
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report

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

Datasheet

	MA 210.X7.IC.A Moisture Analyzer	MA 210.X7.IC.A.NS Moisture Analyzer	MA 210.X7.IC.A.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	internal (automatic)	internal (automatic)	internal (automatic)
Maximum sample weight	210 g	210 g	210 g
Heating module	IR emitter	steel heater	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	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	476×381×346 mm	476×381×346 mm	476×381×346 mm
Net weight	5,4 kg	5,4 kg	5,4 kg
Gross weight	6,9 kg	6,9 kg	6,9 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Features of use			
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
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	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
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
SOP – metrological tests			
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report	For .IC models only, GLP report	For .IC models only, GLP report
External adjustment	For all models, GLP report	For all models, GLP report	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set	Certified MV Test Set	Certified MV Test Set
Adjustment			
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report	Depending on the type of moisture analyzer, GLP report

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



Accessories

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

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

Software

RAD-KEY
Alibi Reader
RADWAG Development Studio

E2R System
Scales Editor 2.1

Device dimensions

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

