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# MA 50.5Y 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

Metrological parameters	
Maximum capacity [Max]	50 g
Readability [d]	1 mg
Tare range	-50 g
Adjustment	external
Maximum sample weight	50 g
Heating module	IR emitter
Moisture content repeatability	+/-0.05% (sample ~ 2g), +/-0.01% (sample ~ 10g)

<b>Metrological parameters</b>	
Moisture content readability	0.001%
Drying temperature range	max 160 °C
<b>Physical parameters</b>	
Leveling system	semi-automatic - LevelSENSING
Display	10" touchscreen
Weighing chamber	automatic
Maximum sample height	20 mm
Weighing pan dimensions	ø90, h= 8 mm
Packaging dimensions	476×381×346 mm
Net weight	5.3 kg
Gross weight	6.5 kg
<b>Construction</b>	
Protection class	IP 43
<b>Features of use</b>	
Display mode	%MC, %DC, %ATRO MC, %ATRO DC, g, g/kg MC, g/kg DC, -%MC
Drying method	4 drying profiles (standard, fast, step, mild)
Finish mode	4 modes (automatic, manual, time-defined, user-defined)
Additional functions	sample traceability
<b>Communication interface</b>	
Communication interface	USB-A x2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
<b>Electrical parameters</b>	
Power supply	100V – 120V AC 50/60Hz or 200V-240V AC 50/60Hz
Power consumption	6 W
Heating module power	450 W
<b>Environmental conditions</b>	
Operating temperature	+10 ÷ +40 °C
<b>SOP – metrological tests</b>	
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Mass indication control	External mass standard 50 g, 100 g, 200 g (depending on the type of moisture analyzer)
Internal adjustment	For .IC models only, GLP report
External adjustment	For all models, GLP report
Drying temperature control	One- or two-point, depending on the drying profile (equipment: GT105k-12/Z Control Thermometer)
Moisture content indication control	Certified MV Test Set
<b>Adjustment</b>	
Internal / External adjustment	Depending on the type of moisture analyzer, GLP report
Drying temperature adjustment	Three-point adjustment at defined temperatures, programmable values (equipment: GT105k-12/Z Control Thermometer)

<sup>1</sup> 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

### Antivibration Tables

- SAL/STONE/H Stainless Steel Antivibration Table [WX-001-0079]
- SAL/STONE/C Antivibration Table [WX-001-0078]
- SAL/C Laboratory Anti-Vibration Table [WX-001-0076]

### Moisture analyzer accessories

- Fabric Dust Cover for MA R, MA X2 Moisture Analyzers [WX-003-0026]
- Glass Fibre Filters [WX-003-0102]
- Transport Case for MA X2, MAR Moisture Analyzer [WX-003-0023]
- GT105k-12/Z Control Thermometer [WX-003-0016]
- Disposable Pans [WX-003-0002]
- Reference Material Sodium Chloride [WX-003-0103]
- Water Vapour Permeability Determination Set [WX-003-0009]
- MV Test Set [WX-003-0104]
- Voluminous Sample Container [WX-003-0029]

### Additional modules

- RES Radwag Extended SI Module (5Y, CY10) [WX-016-0315]
- 21 CFR Part 11 Compliance Module (4Y, 5Y, CY10) [WX-001-0133]

### Barcode scanners

- LS2208 Barcode Scanner [WX-006-0005]

### USB Hubs

- USB 3.0 Hub [WX-015-0286]

### Receipt Printer

- RTP-UEW80 Radwag Thermal Receipt Printer (USB + Ethernet + WiFi) [WX-007-0118]
- RTP-RU80 Radwag Thermal Receipt Printer (RS232 + USB) [WX-007-0119]

### Fingerprint Reader

#### Protective cover for balances

- Protective Cover for X2 Balance [WX-001-0094]

#### RS 232, RS 485 cables

- P0108 Cable [WX-013-0003]
- P0108.5 Cable [WX-013-0161]

#### Additional modules

- 21 CFR Part 11 Compliance Module (X2) [WX-001-0187]

#### RS 232 cables (scale - printer)

- P0151 Cable [WX-013-0002]

#### RS 232 – RS 485 Converter

- KR-01 Converter [WX-004-0021]

## Software

- RAD Key [WX-010-0005]
- E2R Moisture Analyzers [WX-010-0072]
- RADWAG Development Studio [WX-010-0104]

- LabVIEW "Radwag Balances & Scale" Driver [WX-010-0105]
- Alibi Reader [WX-010-0114]

## Device dimensions

