

Simple Moisture Analysis

Reliable and Affordable Performance



Bright, Clear Display

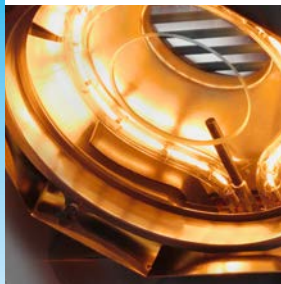
Thanks to large numbers and the brilliant LCD display, information and results are easy to read in all lighting conditions.



Simple 3-Step Operation

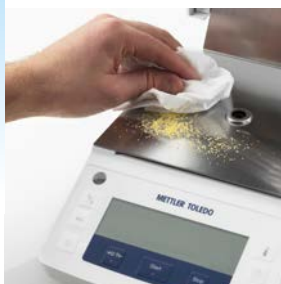
So straightforward everyone can perform moisture analysis:

1. Tare the empty weighing pan
2. Evenly distribute your sample
3. Press start and see the result in just a few minutes



Affordable Quality

The HE53 provides excellent value for money with halogen drying technology and a high performance weighing unit.



Rugged Construction

With a robust metal housing and easy-to-clean stainless steel surface, the HE53 has been designed to provide you with years of reliable service.



HE53

Halogen Moisture Analyzer

The HE53 halogen moisture analyzer is a robust and affordable instrument for determining the moisture content of common everyday samples. With on-screen assistance and easy 3-step moisture measurement process, it is simple to use, even for untrained operators. It is perfect for when you have a tight budget but require reliable performance.

With the HE53, you also get:

- Reliable results
- Intuitive operation
- Easy printer connection

HE53

Halogen Moisture Analyzer

Halogen heating

Accurate temperature control for precise drying

Brilliant display

Easy to read

Progress indicator

View measurement progress in real-time



RS232 connection for printer

Fast and error-free documentation

Robust construction

Space-saving and easy-to-clean design

Weighing unit

High performance weighing cell

Technical Data

Repeatability	0.15% with 2 g sample
	0.05% with 10 g sample
Drying Programs	Standard, Rapid
Readability	1 mg, 0.01 %MC
Method Memory	1
Results Storage	1
Recommended %MC	1.0–100 %MC
Results Handling	Progress indicator
Switch-Off Criteria	1 automatic, timed (1–120 min)
Drying Temperature	50–160 °C (1 °C increments)
Test and Adjust	Temperature adjustment 100 °C/160 °C
	External test weight 50 g
Display Modes	%MC, %DC, %AM, %AD, g
Interfaces	RS232
Capacity	54 g
Display	Backlit LCD
Dimensions (W × D × H)	183 × 334 × 161 mm (341 mm cover open)

Accessories for Moisture Analyzers

		Material No.
Sample Handling	Aluminium sample pans	00013865
	Glass fiber filters	00214464
Quality Management	Certified temperature kit – HE	30134141
	Certified adjustment weight 50 g	30402574
Other Accessories	Protective cover	30209145
	Dust filters – HC/HE	11113883
	Dust filters housing – HC/HE	30216118
	Printer, e.g. RS-P25/01	11124300

SmartCal™ Test Substance

	Material No.
SmartCal StarterPac	30005917
cSmartCal StarterPac	30005918
SmartCal12	30005792
cSmartCal12	30005793
SmartCal24	30005790
cSmartCal24	30005791

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Simple Moisture Analysis

Reliable and Affordable Performance



Bright, Clear Display

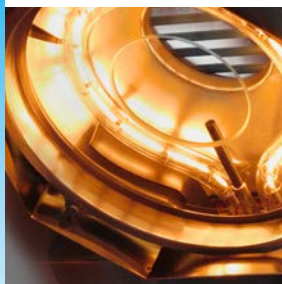
Thanks to large numbers and the brilliant LCD display, information and results are easy to read in all lighting conditions.



Simple 3-Step Operation

So straightforward everyone can perform moisture analysis:

1. Tare the empty weighing pan
2. Evenly distribute your sample
3. Simply close the lid to start and see your result in just a few minutes



Affordable Quality

The HE73 provides excellent value for money with halogen drying technology and a high performance weighing cell. Thanks to the robust design with metal housing and easy-to-clean stainless steel surface, the HE73 will give you years of reliable service.



Fast Method Selection

The HE73 has two method buttons that enable you to quickly select from predefined method parameters to ensure optimal drying of your samples.



HE73 Halogen Moisture Analyzer

The HE73 halogen moisture analyzer is an easy-to-use instrument that you can trust to deliver reliable moisture content measurements for all your everyday samples. With on-screen assistance, easy 3-step operation and two stored methods, moisture measurements can be carried out quickly and efficiently without the need for operator training. With robust weighing technology and precise halogen heating, this affordable instrument offers an excellent return on investment.

With the HE73, you also get:

- Automatic and manual start mode
- Integrated date and time
- Customizable switch-off criterion
- Integrated SmartCal test
- Easy printer connection

HE73

Halogen Moisture Analyzer

Halogen heating

Accurate temperature control for precise drying

Brilliant display

Easy to read

Progress indicator

View measurement progress in real-time



RS232 connection for printer

Fast and error-free documentation

Robust construction

Space-saving and easy-to-clean design

Weighing unit

High performance weighing cell

Method buttons

Fast method selection

Technical Data

Repeatability	0.15% with 2 g sample
	0.05% with 10 g sample
Drying Programs	Standard, Rapid
Readability	1 mg, 0.01 %MC
Method Memory	2
Results Storage	1
Recommended %MC	1.0–100 %MC
Results Handling	Progress indicator
Switch-Off Criteria	1 automatic, timed (1–120 min), free
Drying Temperature	50–200 °C (1 °C increments)
Test and Adjust	Temperature adjustment 100 °C/160 °C
	Integrated SmartCal test
	External test weight 50 g
Display Modes	%MC, %DC, %AM, %AD, g
Interfaces	RS232
Capacity	71 g
Display	Backlit LCD
Dimensions (W × D × H)	183 × 334 × 161 mm (341 mm cover open)

Accessories for Moisture Analyzers

		Material No.
Sample Handling	Aluminium sample pans	00013865
	Glass fiber filters	00214464
Quality Management	Certified temperature kit – HE	30134141
	Certified adjustment weight 50 g	30402574
Other Accessories	Protective cover	30209145
	Dust filters – HC/HE	11113883
	Dust filters housing – HC/HE	30216118
	Printer, e.g. RS-P25/01	11124300

SmartCal™ Test Substance

	Material No.
SmartCal StarterPac	30005917
cSmartCal StarterPac	30005918
SmartCal12	30005792
cSmartCal12	30005793
SmartCal24	30005790
cSmartCal24	30005791

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All-Round Moisture Analysis For Lab and Production



Intuitive Operation

The large 7" color touchscreen offers an easy to navigate user interface. The operator is guided graphically step by step through the workflow.



Robust and Compact Design

Tough metal housing and robust components guarantee a long instrument lifetime. Along with a space-saving design, this makes the HC103 a perfect choice for a busy lab or harsh production floor.



Quick Access to Methods And Results

Shortcuts allow quick and easy access to up to 20 methods. 100 results are stored per method name and can easily be reviewed in the results overview.



Easy Reporting

Production and quality control requires regular moisture testing for each batch. Print or export reports to USB flash drive. ID management, together with a barcode reader make documentation straightforward and easy.



HC103 Halogen Moisture Analyzer

Suitable for a variety of industries, the HC103 offers user-guided touchscreen operation with method shortcuts for ease-of-use. Its compact and robust design guarantees a long instrument lifetime and works for both quality and in-process control applications. The integrated method wizard helps you to develop robust methods delivering reliable moisture results.

With the HC103 you also get:

- Solid weighing technology
- Fast and precise halogen heating
- Intuitive operation
- ID management
- Setup wizard and instrument tutorial

HC103

Halogen Moisture Analyzer

Halogen heating

Accurate temperature control

Built-in method support

Simplified method development for reliable results

Bright and sharp touchscreen

Easy to read

Real-time drying curve

Progress overview



ID management and multiple interfaces

Convenient data transfer and reporting

Flat stainless steel surfaces

Easy to clean and robust

Graphical user guidance

Intuitive for anyone to operate

Technical data

Repeatability	0.10% with 2 g sample
	0.015% with 10 g sample
Drying Programs	Standard, Rapid
Readability	1 mg, 0.01%MC
Method Memory	20
Results Storage	100
Recommended %MC	>1.0%
Results Handling	Results overview, Real-time drying curve
ID Management	10 IDs (entered manually or using a barcode scanner)
Safety	Protection of Settings
Switch-Off Criteria	5 automatic, free, timed (1–480 min)
Drying Temperature	40–230 °C (1 °C increments)
Display Modes	%MC, %DC, %AM, %AD, g, g/kg MC, g/kg DC, –%MC
Interfaces	USB device/USB host (2), RS232
Capacity	101 g
Method Development	Method Wizard
Languages	English, German, French, Spanish, Italian, Russian, Czech, Hungarian, Portuguese, Chinese, Japanese, Korean
Display	7" color touchscreen
Dimensions (W x D x H)	192 x 385 x 169 mm (370 mm lid open)

Accessories for Moisture Analyzers

		Material No.
Sample Handling	Aluminium sample pans	00013865
	Glass fiber filters	00214464
Quality Management	Certified temperature kit – HX/HS/HC	30020851
	Certified adjustment weight 100 g – HX/HS/HC	30406400
Other Accessories	Protective cover	30216115
	Dust filters – HC/HE/HB	11113883
	Dust filter housing – HC/HE	30216118
	Barcode reader (USB)	30417466
	EasyDirect Moisture (Data Collection SW)	30522676

SmartCal™ Test Substance

	Material No.
SmartCal StarterPac	30005917
cSmartCal StarterPac	30005918
SmartCal12	30005792
cSmartCal12	30005793
SmartCal24	30005790
cSmartCal24	30005791
Thermohygrothermometer (RHT sensor) – HX/HS/HC	30020850

www.mt.com/smartcal

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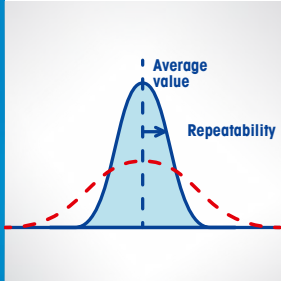
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High Performance Moisture Analysis

Accurate Results and Compliance Ready



Accurate Results for All Sample Types

Get highly reliable and repeatable moisture results thanks to fast halogen heating and superior weighing performance with 0.001% moisture content readability.



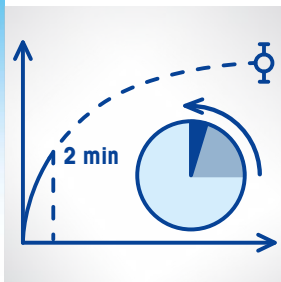
Increased Safety And Process Control

Define multiple users with individual access rights. Zero results and auto lock-out option increase efficiency while adhering to SOPs and regulations.



Built-In Testing Methods Ensure Performance

Integrated routine testing features ensure the instrument is always performing optimally: FACT, SmartCal and tests for the heating and weighing unit at the point of use.



Reduced Measurement Time With Results Prediction

The embedded QuickPredict™ function allows you to predict the final result of moisture measurements in a fraction of the usual measurement time. This allows quicker decision making and speeding up of further analysis/process steps.



HX204 Halogen Moisture Analyzer

A high-performance weighing cell with 0.001% moisture content readability separated from the heating source ensures best moisture results even when measuring very low moisture contents. Method flexibility ensures reliable results for any sample type in research, quality control and in-process control. Integrated routine testing and quality management features help to ensure optimal instrument performance and adherence to regulations.

With the HX204 you also get:

- Integrated method development support
- Quick and easy cleaning
- Network connectivity
- Level control
- Simple system integration and automation
- Tailor-made reporting
- ID management
- Control limits

HX204

Halogen Moisture Analyzer



Precise halogen heating
Fast and reliable results

High performance MFR load cell
Readability 0.1 mg
Accurate moisture results

Hanging weighing pan
Improved accuracy and repeatability
and easy cleaning

Network and printer connectivity
Flexible reporting and data transfer

Flat stainless steel surfaces
Easy to clean and robust

Built-in method support
Simplified method development
for reliable results

FACT and electronic level control
Ensured instrument performance

Results prediction
Reduced time to result

Technical data

Repeatability	0.05% with 2 g sample
	0.01% with 10 g sample
Drying Programs	Standard, Rapid, Gentle, Steps
Readability	0.1 mg, 0.001%MC
Method Memory	300
Results Storage	3,000
Recommended %MC	>0.01%
Results Handling	Control charts, Results overview, Real-time drying curve, QuickPredict, A4 Network printing, Export to file servers, Zero-results option
ID Management	10 IDs (entered manually or using a barcode scanner)
User Management	10 groups with 30 users, auto lock-out function
Switch-Off Criteria	5 automatic, free, timed (1–480 min)
Drying Temperature	40–230 °C (1 °C increments)
Test and Adjust	Freely definable temperature adjustment (80–200 °C)
	3 rd testing temperature (50–200°C)
	Internal (FACT) and external weight test (0.1–200 g)
Display Modes	%MC, %DC, %AM, %AD, g, g/kg MC, g/kg DC, –%MC
Interfaces	WiFi, Ethernet, USB device/USB host (2), RS232, SD
Capacity	201 g
Method Development	Method Wizard, Test measurement
Languages	English, German, French, Spanish, Italian, Russian, Czech, Hungarian, Portuguese, Chinese, Japanese, Korean
Display	7" color touchscreen

Accessories for Moisture Analyzers

		Material No.
Sample Handling	Aluminium sample pans	00013865
	Glass fiber filters	00214464
Quality Management	Certified temperature kit – HX/HS/HC	30020851
	Certified adjustment weight 100 g – HX/HS/HC	30406400
Other Accessories	Protective cover HX/HS	30003957
	Dust filters HX/HS	30020838
	Barcode reader (USB)	30417466
	Support stand HX/HS	30018474
	Printer holder HX/HS	30066692
	EasyDirect Moisture (Data Collection SW)	30522676

SmartCal™ Test Substance

	Material No.
SmartCal StarterPac	30005917
cSmartCal StarterPac	30005918
SmartCal12	30005792
cSmartCal12	30005793
SmartCal24	30005790
cSmartCal24	30005791
Thermohygrometer (RHT sensor) – HX/HS/HC	30020850

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High Performance Moisture Analysis

Accurate Results and Optimized Productivity



Process Control And Optimized Productivity

Define multiple users with individual access rights to adhere to SOPs and regulations. Customizable control and warning limits for each method allow instant pass/fail decisions to be made by the user.



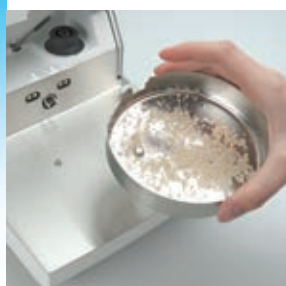
Integrated Method Development Support

The integrated Method Wizard helps you to develop robust methods delivering reliable moisture results with minimum effort.



Versatile Data Transfer And Printing

For reporting, simply transfer data to a USB flash drive or a file server through various interfaces. Print results on a strip printer or any printer in the network. Customizable reports and formats available.



Innovative Design For Easy Cleaning

The hanging weighing pan and flat stainless-steel surface underneath allow fast and easy cleaning without the risk of dirt falling into the weighing cell.



HS153 Halogen Moisture Analyzer

Equipped with a high-performance weighing cell separated from the heating source for best moisture results. Method flexibility ensures reliable results in quality and in-process control either in the lab or directly on the production floor. Integrated routine testing and quality management features help to ensure optimal instrument performance.

With the HS153 you also get:

- Safety and process control
- Precise halogen heating
- High-performance load cell
- Built-in quality assurance
- ID management
- Results prediction (optional)

HS153

Halogen Moisture Analyzer



Precise halogen heating
Fast and reliable results

High performance MFR load cell
Readability 1 mg
Accurate moisture results

Network and printer connectivity
Flexible reporting and data transfer

Built-in method support
Simplified method development
for reliable results

Hanging weighing pan
Improved accuracy and repeatability
and easy cleaning

Flat stainless steel surfaces
Easy to clean and robust

Level control
Adherence to SOPs and regulations

Results prediction (optional)
Reduced time to result

Technical data

Repeatability	0.05% with 2 g sample
	0.01% with 10 g sample
Drying Programs	Standard, Rapid, Gentle
Readability	1 mg, 0.01%MC
Method Memory	100
Results Storage	3,000
Recommended %MC	>0.5%
Results Handling	Control charts, Results overview, Real-time drying curve, QuickPredict (optional), A4 Network printing, Export to file servers
ID Management	10 IDs (entered manually or using a barcode scanner)
User Management	10 groups with 30 users, auto lock-out function
Switch-Off Criteria	5 automatic, free, timed (1–480 min)
Drying Temperature	40–230 °C (1 °C increments)
Display Modes	%MC, %DC, %AM, %AD, g, g/kg MC, g/kg DC, –%MC
Interfaces	WiFi, Ethernet, USB device/USB host (2), RS232, SD
Capacity	151 g
Method Development	Method Wizard, Test measurement
Languages	English, German, French, Spanish, Italian, Russian, Czech, Hungarian, Portuguese, Chinese, Japanese, Korean
Display	7" color touchscreen

Accessories for Moisture Analyzers

		Material No.
Sample Handling	Aluminium sample pans	00013865
	Glass fiber filters	00214464
Quality Management	Certified temperature kit – HX/HS/HC	30020851
	Certified adjustment weight 100 g – HX/HS/HC	30406400
Other Accessories	Protective cover HX/HS	30003957
	Dust filters HX/HS	30020838
	Barcode reader (USB)	30417466
	Support stand HX/HS	30018474
	Printer holder HX/HS	30066692
	EasyDirect Moisture (Data Collection SW)	30522676
	License QuickPredict	30518268

SmartCal™ Test Substance

	Material No.
SmartCal StarterPac	30005917
cSmartCal StarterPac	30005918
SmartCal12	30005792
cSmartCal12	30005793
SmartCal24	30005790
cSmartCal24	30005791
Thermohygrometer (RHT sensor) – HX/HS/HC	30020850

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