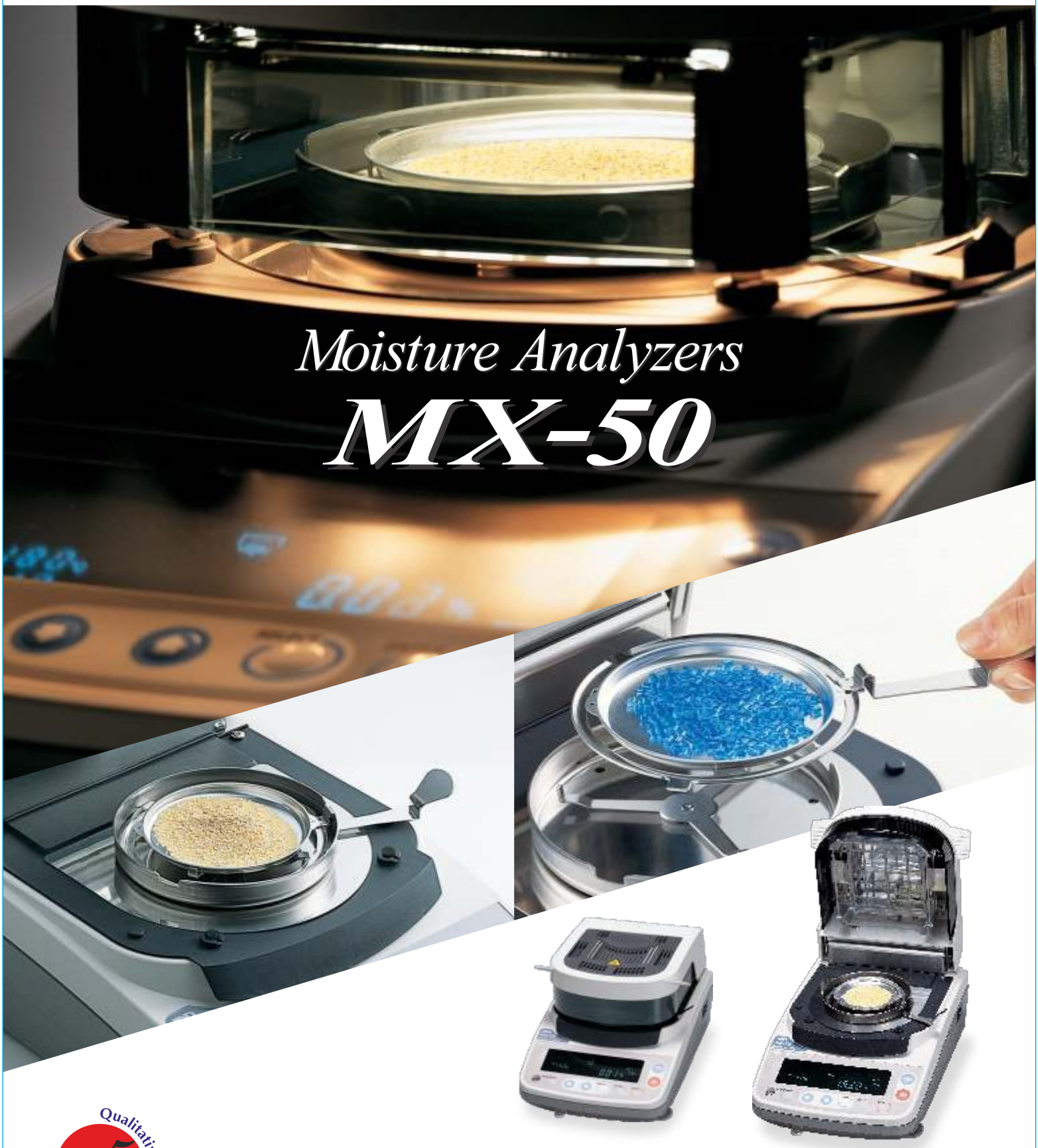
A&D ...Clearly a Better Value
A&D Company, Limited

Essae®
...for Excellence

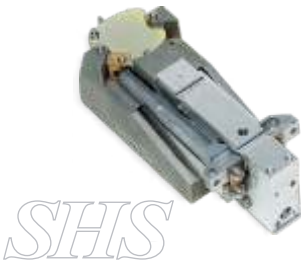


Moisture Analyzers
MX-50

25 Qualitative Years
1986–2011

Select the bes
for your appl

A&D's Moisture Analyzer
MX-50



Fast and uniform heating with halogen lamp and innovative SRA technology
Straight halogen lamp and uniquely designed SRA (Secondary Radiation Assist) filter gives shorter measurement time, thanks to fast and uniform heating

High Repeatability
with SHS (Super Hybrid Sensor) featured as the weight sensor, ultra accurate moisture content determination is possible based on high precision weighing of even a small sample

Standard win CT-Moisture for real-time graph displaying
Win CT-Moisture is an original software application designed to display a graph of moisture content rate change while measuring with a connected PC

Sodium Tartrate Dihydrate comes as standard for accuracy checking
Sodium Tartrate Dihydrate is a chemical material that has stable moisture content of 15.66%$^{+0.3-0.1}$ and thus is best to use for accuracy check to maintain the reference value of the analyzer

Calibration of the heater temperature
With the temperature calibration (optional), calibration result can be output in the format that conforms to GLP, GMP, ISO

Memory function
According to sample up to 20 suitable measurement conditions can be stored and recalled , which saves time and prevents the user from making a mistake when setting
For measurement result, up to 100 data can be stored and output at once

Five measurement programs
Five choices of measurement programs, Standard, Automatic, Quick, Timer, and Manual Mode are provided
Standard Mode : just measurement accuracy, HI, MID or LO needs to be set
Automatic Mode : Ends measurement when moisture content changes at a rate less than the set rate
Quick Mode : Begins heating samples at 200℃ for 3 minutes, then is the same as Automatic Mode
Timer Mode : Continues measurement for a set duration of time (1 60mins.: by 1min, 60 480mins.: by 5mins.)
Manual Mode : STOP button should be pressed to end measurement (Max. heating time: 480mins.)

Selectable Heating Mode
Choose the heating mode from standard, quick, step and ramp heating modes for the most suitable measurement

Clear and esay-to-see, large VFD display
Measurement, setting value, change in moisture content, action status, data number and other important information are clearly displayed

Easy handling of the unit
Ergonomically designed pan handle eliminates mishaps such as burns when moving a hot sample pan into or out of the unit from either side. Wing handle for easy opening and closing of the heater cover

Low maintenance cost assured
The halogen lamp is user replaceable without unit downtime with protective chamber for easy cleaning (Lamp life 5000 hours)

st moisture analyzer
lication-Test with The Best

MX

Progress Window for heating check
Heating process can be checked through translucent window

Self check function
Defect check function is available along with temperature control

Quick Reference card
A convenient operating guide is installed at the bottom of the analyzer

Standard RS-232C
Bi-directional communication with a PC or connects directly to a printer

Conformity to GLP, GMP, GCP, and ISO with date/time, ID, Calibration data and check records outputs
Data output for daily record management

SRA
Secondary Radiation Assist

Straight Halogen Lamp

SHS
Super Hybrid Sensor

WinCT
MOISTURE

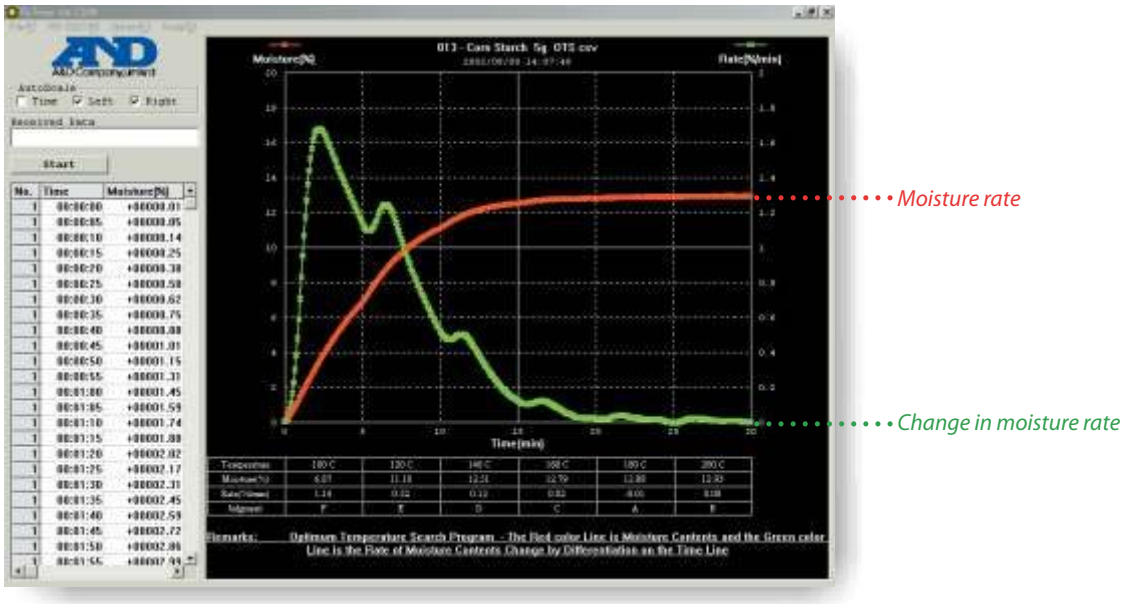
888
VFD Display

RS-232C

GLP

WinCT-Moisture

With our WinCT-Moisture software, data measured by the Moisture Analyzers can be easily displayed on your computer.
Effective for determine measurement conditions such as heating temperature, and useful in reducing the time needed for measurement and improving accuracy.



Displays moisture rate changes over time in a graph (Rs Fig)

Displays changes in moisture rate in real time

Measures moisture rate in a minimum time with excellent accuracy

Heats at the highest temperature without change the physical properties of the sample and provides measurements with good repeatability

Automatically determines the most suitable heating conditions in a short time (Rs Temp)

Automatically changes the heat applied by the set increments and interval time within a range of 50℃-200℃. From the moisture rate change over the time can determine the most suitable heating temperature in one time measurement (*patent pending)

Shows sample data summary

Provides a data summary for the sample with the results of moisture rate change for the representative material's measurement

Calculates measurement data statistics

Saves the recorded data as a CSV file

Determine other changes to the sample material in addition to moisture rate

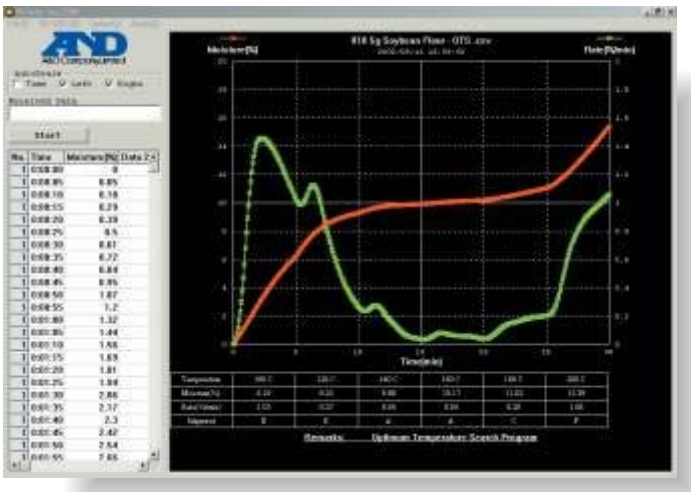
Continuously measure changes to the mass in response to heating temperature and detects other material changes besides th moisture rate

WinCT-Moisture
Measurement example

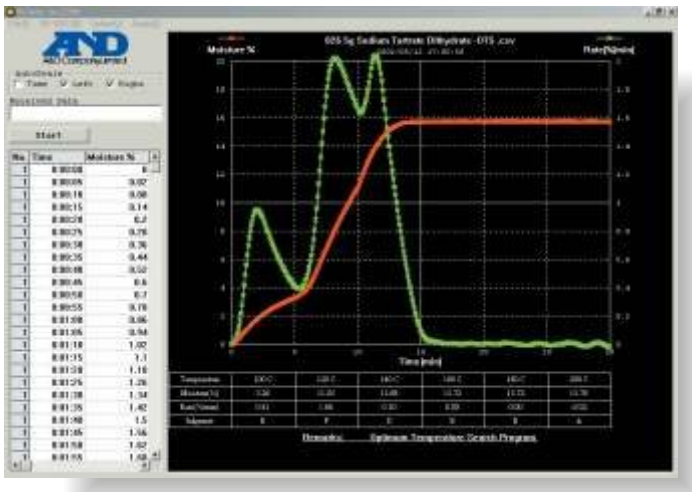
WinCT-Moisture consists of RsTemp software to determine the heating temperature and RsFig software for graphics.

1.Example of measurement using Rs Temp software to determine the heating temperature

Automatically changes the heating temperature (by your setting increments and interval time) within a range of 50℃ - 200℃.
From the rate of change in moisture over time measurement it can determine the optimum heating temperature for the sample.



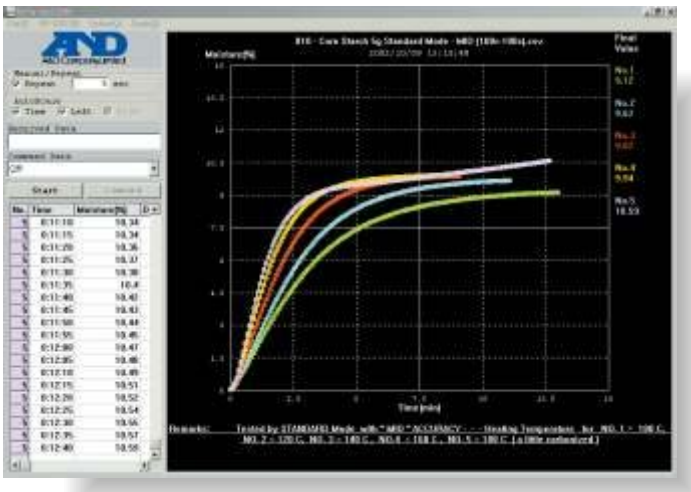
Soybean flour



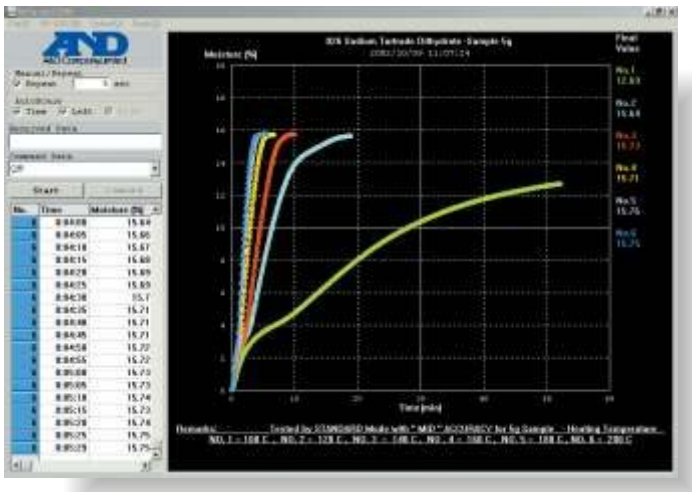
Sodium tartrate dihydrate

2. Example of measurement using RsFig graphics software

Can be moisture rate aganist time when the heating temperature is changed as well as showing the result of repeated measurement at a certain temperature. From the graph, the highest possible heating range for the sample and the quickest measuring time can be determined.



Corn starch



Sodium tartrate dihydrate

Specifications	M -50
Measurement Method	400W straight halogen lamp heating system with SRA filter and SHS weighing technology
Max Sample Weight Capacity	51g
Weight Resolution	0.001g
Moisture Content Display	0.01% / 0.1%
Moisture Content Accuracy over 1g	0.10%
(Standard Deviation) over 5g	0.02%
Heating Technology	Halogen lamp (Straight type, 400 Watt max, 5000 hours)
Drying Temperature (1°Cincrement)	50-200°C
Memory of Measurement Programs	20 sets
Measurement Programs	Standard Mode/Automatic Mode/Quick Mode/Timer Mode/Manual Mode
Measurement Mode	Moisture content(Wet or Dry base) /Dry content/Ratio/Weight
Heating Mode	Standard / Quick / Step /Ramp
Display Type	Large VFD
Interface	RS-232C standard
Data Memory Function	100
Operating Temperature	5-40°C (41-104°F) less than 85%RH
GLP/GMP/ISO	Available
Self Check Function	Standard
Communication Software	WinCT-Moisture standard
Sample Pan Size	Ø85mm
Power	AC 200V to 240V (1.5A), 50/Hz, Approx. 400W
Physical Dimention/Weight	215(W) x 320(D) x 173(H) / Approx. 6kg
Standard Accessories	Sample Pans - 20, Pan Handles -2, Spoon, Test Sample (30g of Sodium Tartrate Dihydrate), CD-ROM (WinCT-Moisture), Glass Fiber Sheet, RS-232C Cable, Display Cover, Dust Cover, Instruction Manual, Quick Reference Card, Power Cable, Fuse

Specifications are subject to change for improvement without notice.

Options:

AD-8121 B	Dot Matrix Compact Printer
AX-MX-31	Sample Pan (0 85mm x 100pcs)
AX-MX-41	Calibration Mass (20g, equivalent to OIML class F1)
AX-MX-43	Certified Temperature Calibrator

AD-8121B
Dot Matrix Compact Printer

...Clearly a Better Value

The contents of this catalogue are subject to change due to modifications and/or other reasons.

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