

MDZY-KLEX Karl Fischer Moisture Analyzer



I、 INSTRUMENT INTRODUCTION

MDZY-KLEX Karl Fischer moisture analyzer adopts a 7-inch capacitive high-definition color touch screen, the interface is simple and intuitive, and the operation is simple and fast. The unique circuit and program design has the advantages of high test accuracy, fast electrolysis speed, short equilibration time, accurate blank subtraction, and accurate and reliable analysis results.

II、 PRODUCT FEATURES

➤ **Strong environmental adaptability and high measurement accuracy**

The all-digital intelligent control measurement of the electrolytic measurement process accurately deducts the background current and completely eliminates the influence of ambient air humidity and stirring rate;

Exclusive use of real-time dynamic impedance method to determine the titration end point, the measurement results are more accurate;

Equilibrium point (titration end point) can be set, which ensures the wide adaptability of the instrument to reagents of different sensitivity;

➤ **Multiple built-in test methods, easier to test**

Elaborately refined eight concentration calculation formulas, covering most of the moisture measurement standards. Six test methods are optional to meet various needs.

Measurement result storage and query function: It can store 496 sets of measurement data, and its own printer can query and print in real time.

➤ **High reliability**

The core device adopts industrial grade data conversion chip, which has excellent linearity and long-term stability.

➤ **Easy to use**

Navigation menu design, functions are clear at a glance, capacitive touch screen operation, simple and fast operation.

➤ **Rich display content**

Simultaneously online display of water content, measurement time, PPM, percentage content, electrolysis current, potential, system time.

➤ **A variety of test result units are available, suitable for different samples**

Automatic calculation of measurement results, including percentage, ppm, mg, etc.; GLP-compliant experimental records, including measurement time, water content, percentage, system time, operator, etc.

II、Technical Parameter

Model	MDZY-KLEX
Principle	Karl Fischer Coulometry method
Measuring Speed	2.8mg H ₂ O/min(Max.)
Measuring Range	3μg-300mg
Measurement Accuracy	±3μg(10ug--100μg H ₂ O) ; ≤0.3% (moisture content >100 μ g H ₂ O) (excluding sampling error)
Measurement Resolution	0.1μg H ₂ O
Electrolytic Current	0-500mA adjustable
Moisture Concentration Resolution	0.001ppm
Concentration Unit	%、ppm、mg/kg
Stirring Speed	Stepless touch adjustment
Drift Value Blank Value Deduction	Automatic deduction
Special Function	Automatic drift compensation, automatic deduction of environment and background moisture, fault self-diagnosis prompt
Display and Operation	Color touch screen
Sample Serial Number	The user can freely set the sample number
Storing Data	500 pieces
Print Function	Built-in low-power high-speed thermal printer with a paper width of 58mm

Print Content	Display different content according to the user's measurement formula and measurement results
Calendar/Time	Current time, date, detection time and date display and printout
Environment	Temperature 2 ℃-50 ℃, Humidity<90%
Host Size	350mm*300mm*170mm
Voltage	220V,50HZ 80W
Net Weight	4kg
Gross Weight	8kg
Optional	If the product is insoluble in organic solvents (methanol), or will react with Karl Fischer reagent components (methanol, iodine, etc.), it can be used with a heating furnace

III、Applicable Industries

Liquid	Chemical industry: alcohols, ethers, acids, benzenes, phenols, organic solvents and other products suitable for the determination of Karl Fischer method; Petroleum and electric power industry: insulating oil, transformer oil and other oil products; Pharmaceutical industry: pharmaceutical raw materials, etc.; Pesticide industry: emulsifiers, fertilizers, pesticides, etc.; Food and beverages, surfactants, cosmetics; Other industries: lithium battery electrolyte, etc.;
Solid	Solid with good solubility, such as various inorganic salts, citric acid, lyophilized powder, medicine, etc.
Gas	Gases that do not react with Karl Fischer's reagent;

IV、Product List

No.	Name	QTY	Unit
1	Moisture meter host	1	set
2	Electrolytic cell bottle	1	piece
3	Electrolysis electrode	1	piece
4	Measuring electrodes	1	piece
5	drying tube	2	piece
6	gasket	5	piece
7	Vacuum grease	1	box
8	Magnetic stirring bar	1	piece
9	0.5ul syringe	1	piece
10	50ul syringe	1	piece
11	1ml syringe	1	piece

12	power cable	2	piece
13	manual	1	copy
14	certificate	1	copy
15	printer paper	1	roll