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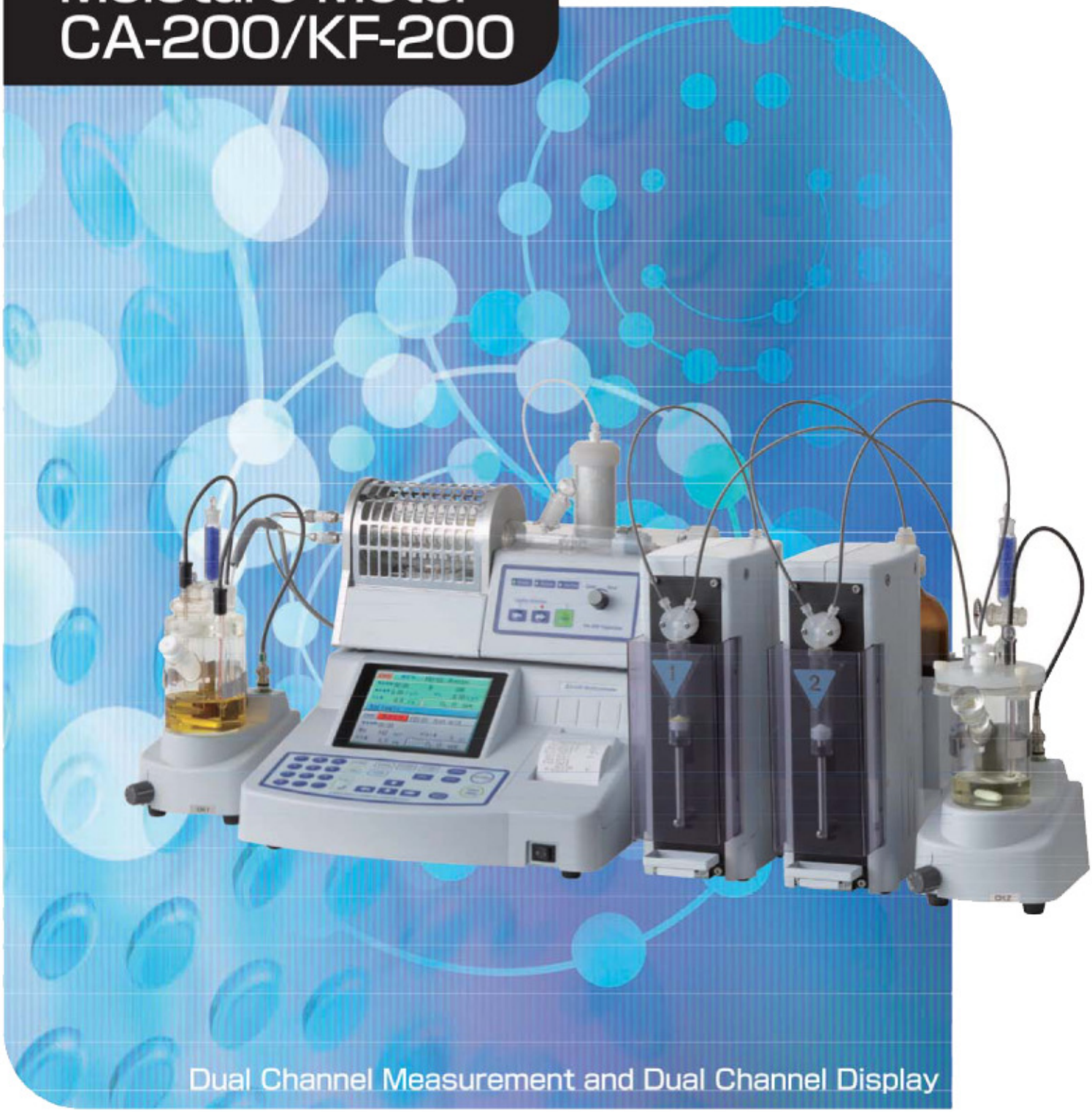
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Karl Fischer Moisture Meter CA-200/KF-200



Dual Channel Measurement and Dual Channel Display

COSA INSTRUMENT CORPORATION

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www.cosa-instrument.com

The dual channel Karl Fischer Moisture System has further development to complete the system. One unit of system perfectly cover the function of two systems by using Color LCD display. And more over the foot print is much smaller than two units.

Dual Channel Simultaneous Measurement (Patent Pending)

Simply adding a titration unit to the CA-200/KF-200 single channel system makes it possible to configure a dual channel system. The 5.7-inch color LCD clearly show the status of both channels.



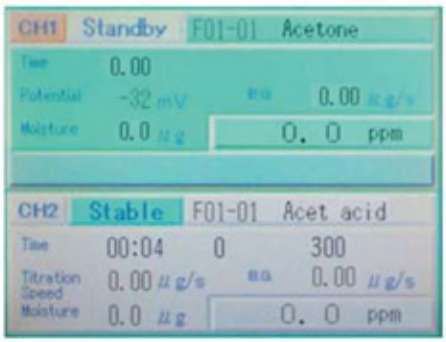
Features

We completed Dual Channel system for simultaneous measurement. CA-200 KF-200

Not only two channel of Coulometric measurement, but also any dual channel combination for Coulometer (CA-200) and Volumeter (KF-200) is possible to operate. We prepare second channel option Coulometric (CAECAZ), Volumetric (CAEKSZ/CAEKDZ), it enables a Dual Channel system by an easy connection. More over, the water vaporizer and back-titration burette are also compatible with dual channel measurement. An additional power supply unit (CAEPWF) enables the operator to use two water vaporizers and three or more burette units in one time.
The water vaporizer (VA-200/VA-230) can be installed on top of the CA-200/KF-200 or the additional power supply unit and it can considerably reduced the space.

5.7-Inch Color Liquid Crystal Monitor CA-200 KF-200

The 5.7-inch color LCD realizes a large operation screen and the plain looking. The coloring display improves the operation. The dual channel is expressed by the different colors. The actual channel is clearly displayed by different color from another channel.

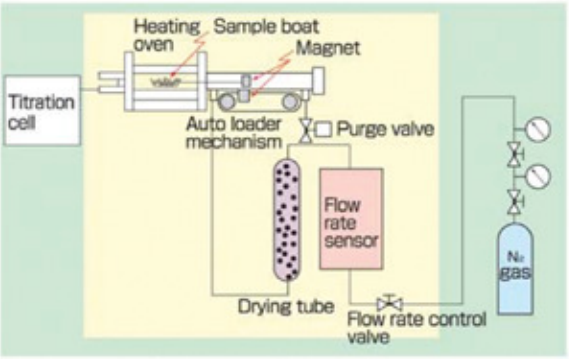


A wide range of vaporizers are available to accommodate various types of samples, including plastics, foods, pharmaceuticals, inorganic salts, lubricants, grease, oil, minerals, clay, metal oxides, iron ores and various types of chemicals.

Vaporizers

■VA-200 (Sample Boat Type)





Various types of plastics, rubber, foods, pharmaceuticals, inorganic salts and other powders and solid samples

Heating temperature	70~300℃
Heater	Transparent electro-conductive glass 150W
Sample size	Up to 10 g
Measuring range	From 5 ppm (when used in combination with CA-200)
Carrier gas	Nitrogen gas, 0.1~0.5 l/min
Gas dryer	*Desiccant (Sicapent®) tube,1
Power supply	AC100~120V 160VA/220~240V 740VA
Dimensions	Approx. 303(W)×112(D)×131(H) mm
Weight	Approx. 5.5 kg

■VA-230 (Disposable Vial Type)



Enables easy measurement using disposable vials.Various types of plastics, rubber, foods, pharmaceuticals, inorganic salts and other powders and solid samples

Heating temperature	70~300℃
Heater	Aluminum block heater 60W×2
Sample size	Up to 10g and 2.5ml volume, vial volume:10ml
Measuring range	From 30 ppm (when used in combination with CA-200)
Carrier gas	Nitrogen gas, 0.1~0.5 l/min
Gas dryer	*Desiccant (Sicapent®) tube,1
Power supply	AC100-120V, 140VA/ 220-240V, 280VA
Dimensions	Approx. 300(W) x 135(D) x 220(H) mm
Weight	Approx. 3.5 kg

■VA-236(Autosampler)



Enables continuous measurement of 36 samples. For general solid samples:Various plastics, rubber, foods, pharmaceuticals, inorganic salts and other powders and solid samples.

Heater	Resistance wire 150 W
Sample size	Up to 10 g
Measuring range	5 ppm to 100% water (when used in combination with CA-200)
Carrier gas	Nitrogen gas, 0.1-0.5 l/min
Gas dryer	*Desiccant (Sicapent®) tube,1
Power supply	AC100/120/220/240V, 250VA
Dimensions	Approx. 340(W)×430(D)×340(H) mm
Weight	Approx. 20 kg

■VA-210 (For Lubricants)



Lubricants, grease, tar, iron ore, clay, metal oxides, inorganic salt products

Heating temperature	70~199℃
Heater	Transparent electro-conductive glass 200 W
Sample size	Up to 50 g
Measuring range	From 5 ppm (when used in combination with CA-200)
Carrier gas	Nitrogen gas, 0.1~0.5 l/min
Gas dryer	*Desiccant (Sicapent®) tube,1
Power supply	AC100-120V, 160VA/ 220-240V, 740VA
Dimensions	Approx. 120(W)×220(D)×230(H) mm
Weight	Approx. 3 kg

■VA-121 (High Temperatures)



Iron ore, clay, metal oxides, inorganic salts

Heating temperature	250~1000℃
Heater	Electric Furnace(Kanthal wire)800W
Sample size	Up to 10 g (using quartz boat)
Measuring range	From 10 ppm (when used in combination with CA-200)
Carrier gas	Nitrogen gas, 0.1~0.5 l/min
Gas dryer	Desiccant (Silicagel) tube, 1 *Desiccant (Sicapent®) tube, 2
Power supply	AC100V, 1500VA, with current leakage (15 mA) and overcurrent (20 mA) breakers
Dimensions	Approx. 420(W)×260(D)×240(H) mm
Weight	Approx. 15.5 kg

■AML-200 (Autosampler)



Large Dynamic Range

Sample	Liquid Samples
Sample Vial	Volume: 4ml, 50 vials, glass
Rinsing Bottle	28 ml, 2 bottles, glass
Power Supply	AC 100/115/230/240 V, 50/60 Hz
Dimensions	(mm) 460(w) x 320(D) x 470(H)
Weight	Approx. 16kg

VA-121 and VA-122, these are the CE mark non-acquisition products.
※Sicapent® (Merck) is used for the desiccant tubes.

Coulometric Moisture Meter Model CA-200 Specifications

Measurement method	Coulometric Karl Fischer titration, 2-channel simultaneous measurement (option)
Control method	Constant current pulse time control
Detection method	Constant current polarization potential difference
Electrolysis current	430 mA
Titration rate	Avg. 2.2 mgH2O/min (36 μgH2O/sec)
Background	Automatic correction, constant display, background display at start of measurement
Measuring range	10 μg to 100 mg H2O
Detection sensitivity	0.1 μg H2O
Accuracy	Up to 0.3% CV at 1 mg or more (n=10)
Stirring method	Magnetic stirrer
Titration cell	Volume: 150 ml
Display	5.7-inch color liquid crystal monitor
File configuration	20 files, 50 multi-files
Calculation functions	Calculation of concentration, statistical calculation, recalculation
Printer	Built-in thermal printer
Vaporizer operating functions	Temperature range of VA-200, VA-210 or VA-124S, measurements can be grouped for VA-124S (stepped temperature control available for each vaporizer)
External I/O	Electronic balance : Automatic weight input Dedicated USB memory port : Storage of measurement results, import/export of settings
Additional functions	Computer: RS-232C interface (option) GLP support function, help function, detection electrode conditioning
Operating environment	Temperature: 5-40℃ Relative humidity: Up to 85% with no condensation of moisture
Power supply	AC100-200 V, 220-240 V, 50/60 Hz
Power consumption	AC100-120V, 80 VA; 220-240 V, 310 VA
External dimensions	Main unit: Approx. 330(W)×320(D)×148(H) mm Stirrer: Approx. 120(W)×180(D)×148(H) mm
Weight	Main unit: Approx. 5 kg Stirrer: Approx. 1 kg

Volumetric Moisture Meter Model KF-200 Specifications

Measurement method	Volumetric Karl Fischer titration, 2-channel simultaneous measurement (option)
Control method	Detection voltage proportional control
Detection method	Constant current polarization potential difference
Measuring range	0.1-999 mg H2O
Stirring method	Magnetic stirrer
Titration flask	Volume: 150 ml
Display	5.7-inch color liquid crystal monitor
File configuration	20 files, 50 multi-files
Calculation functions	Calculation of concentration, statistical calculation, recalculation
Printer	Built-in thermal printer
Vaporizer operating functions	Temperature range of VA-200, VA-210 or VA-124S, measurements can be grouped for VA-124S (stepped temperature control available for each vaporizer)
Burette	Syringe type Volume: 10 ml (option: 25 ml) Discharge rate: ml/1.5 sec, aspiration rate: ml/1.5 sec Accuracy: ±0.02 ml (10 ml syringe)
External I/O	Electronic balance: Automatic weight input Dedicated USB memory port: Storage of measurement results, import/export of settings Computer: RS-232C interface (option)
Additional functions	GLP support function, help function, detection electrode conditioning
Operating environment	Temperature: 15-40° C Relative humidity: Up to 85% with no condensation of moisture
Power supply	AC100-200 V, 220-240 V, 50/60 Hz
Power consumption	AC100-120V, 80 VA; 220-240 V, 310 VA
External dimensions	Main unit: Approx. 330(W)×320(D)×148(H) mm Stirrer: Approx. 120(W)×180(D)×148(H) mm KF burette: Approx. 108(W)×320(D)×275(H) mm
Weight	Main unit: Approx. 5 kg Stirrer: Approx. 1 kg KF burette: Approx. 3.5 kg

Options

● Liquid Dispenser and Disposal Unit KFESD



External dimensions	Approx. 90(W)×120(D)×80(H)mm
Weight	Approx. 708g

● Additional Power Supply Unit CAEPWA



External dimensions	Approx. 310(W)×170(D)×150(H)mm
Weight	Approx. 3 kg

When Expanding Burette

Burette expansion function	Max. 2 burettes
Power consumption	AC100-120V, 80 VA AC220-240 V, 310 VA

When Expanding Vaporizer

VA expansion function	Max. 1 unit
Power consumption	Varies according to vaporizer used

● Second Channel Option for Coulometric CAECAZ
(Stirrer Unit and Titration Cell set)

● Second Channel Option for Single-Volumetric CAEKSZ
(Stirrer Unit, One Burette Unit and Titration Cell set)

● Second Channel Option for Double-Volumetric CAEKDZ
(Stirrer Unit, Two Burette Units and Titration Cell set)

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