KEM

Software for Moisture titrator

KF-Win

# KEM KYOTO ELECTRONICS
MANUFACTURING CO.,LTD.

reate Metho

Method filena

Method_Fact

Edit Unit File

Unit filename   KF reagent

Reagent name   KF reagent

Remaining reagent   1000

OK

Method   Sample

Edit...

Create...

Copy...

Delete...

cking

User name   MANAGER

Password

Reset

Titration Results List

File   Edit   View   To

OPEN   PRINT   RENEW

Mach...   Measured ...

ment / Check Re

ement | **Check**

Time | M

20:30:39 M

M1 - Titration

View   Titration   Method

T | START   RESET   PRETITR

ingle Mode   Method: Metho

raph type

nit, Accumulated volume ▼

raphic line size and color

ccumulated volume

_ine size   Standard ▼

:olor   [ ]   Setup

Print color   [ ]   Setup

nit volume

ne size   Standard ▼

Range se

Range mc

Max.

10

ethod

METHOD

Titration results

Titration mode	Moisture
Cell type	2component cell
Heating mode	Set.
Sample No.	07-06
Lot No.	123456789
Total Moisture	*********** ug
Moisture	5812.1 ug
Detected Potential	********** mV
Drift	0.16 ug/sec
temp.	230 degree C.
Meas.time	00:17:01
Result	5.57 %

Work range:

- ☑ Permission to use titration progran
- ☑ Print titration program
- ☑ Measuring procedure (Start, Pre-T
- ☐ Create, edit, copy, delete Method
- ☐ Configure auto save, options and
- ☐ Edit unit file
- ☑ Reagent factor, factor and Reage
- ☑ Periodic factor measurement and
- ☑ Permission to use analysis progra
- ☐ Save titration data by analysis pro
- ☑ Print analysis program
- ☐ Operate re-computation

KF-Win software enables your PC to control KEM's KF Moisture titrators including MKC-710B, MKV-710B, MKC-520, MKA-520, MKS-520, MKC-510N, MKA-510N and MKS-510N. KF-Win is designed to control the Moisture titrator unit including start and reset of it, and set conditions and parameters of titration or sample materials from the PC. KF-Win works on Microsoft® Windows®.

FEATURE

Subsequent instructions on display

While measurement, instructions appear on display to prompt subsequent procedures like solvent addition and entry of sample size. The instructions can reduce operational error to implement complex analytical procedures.
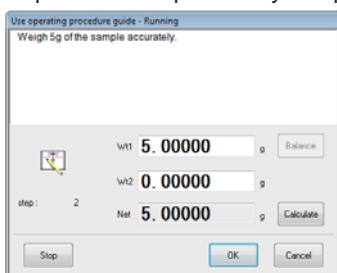
Full and versatile documentation

CSV format is now available as a titration data format, which is ever offered as its own format of the Moisture titrator. CSV can be used in many other application tools like Microsoft® Excel®, Microsoft® Access® or Microsoft® Word® for quick analysis and effortless documentation.

Operation permission defined for each user

This system requires user name and password to start the titration program and the administrator can define which operation is permitted for each user. This function is designed to prevent a user from affecting entire measurement settings.
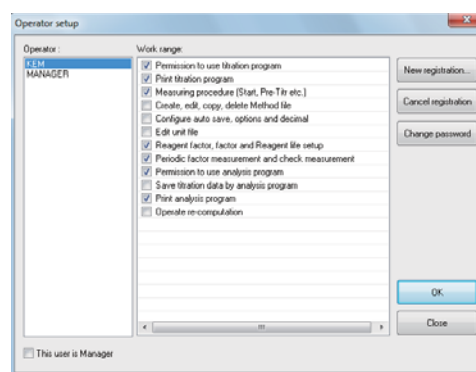

Fully GLP conformed

Factor calibration : notice of periodical calibration date, record of factor calibration
Check with standard substance : notice of periodic check date, check record
Other function : setting of operation permission for each operator, error record
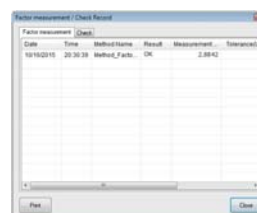

Titration result viewer program

New viewer program can show titration results recorded by KF-Win. This viewer program can not only show all of titration results but also recalculate or simulate the data of these results. It is also possible on any computer connected through LAN to the main computer directly connected to the titrator by installing the viewer program.
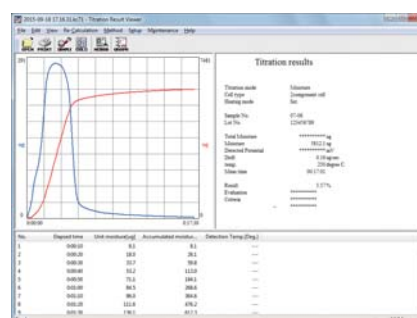
Auto creation of folders

Folders named daily, monthly or annually can be created and titration result files can be sorted into the folders automatically. It helps you to organize huge data.
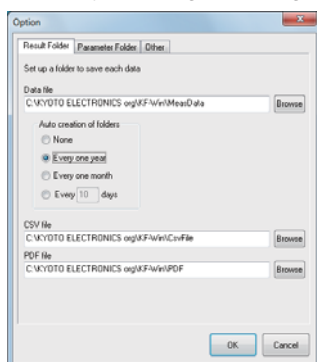

PDF output

Various data including results and methods can be output in PDF format. It enables you to manage titration results in a common electronic file and to show results on any PC without installation of additional software.

Operation lock

You can lock the KF-Win when you leave the titrator during titration process. The lock function can prevent the titration from being operated incorrectly by other operators. It is helpful for the circumstance where several operators use the same computer.
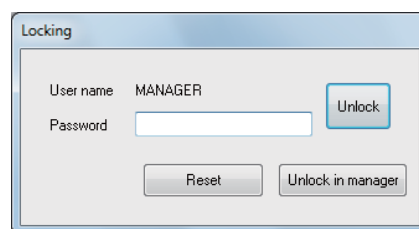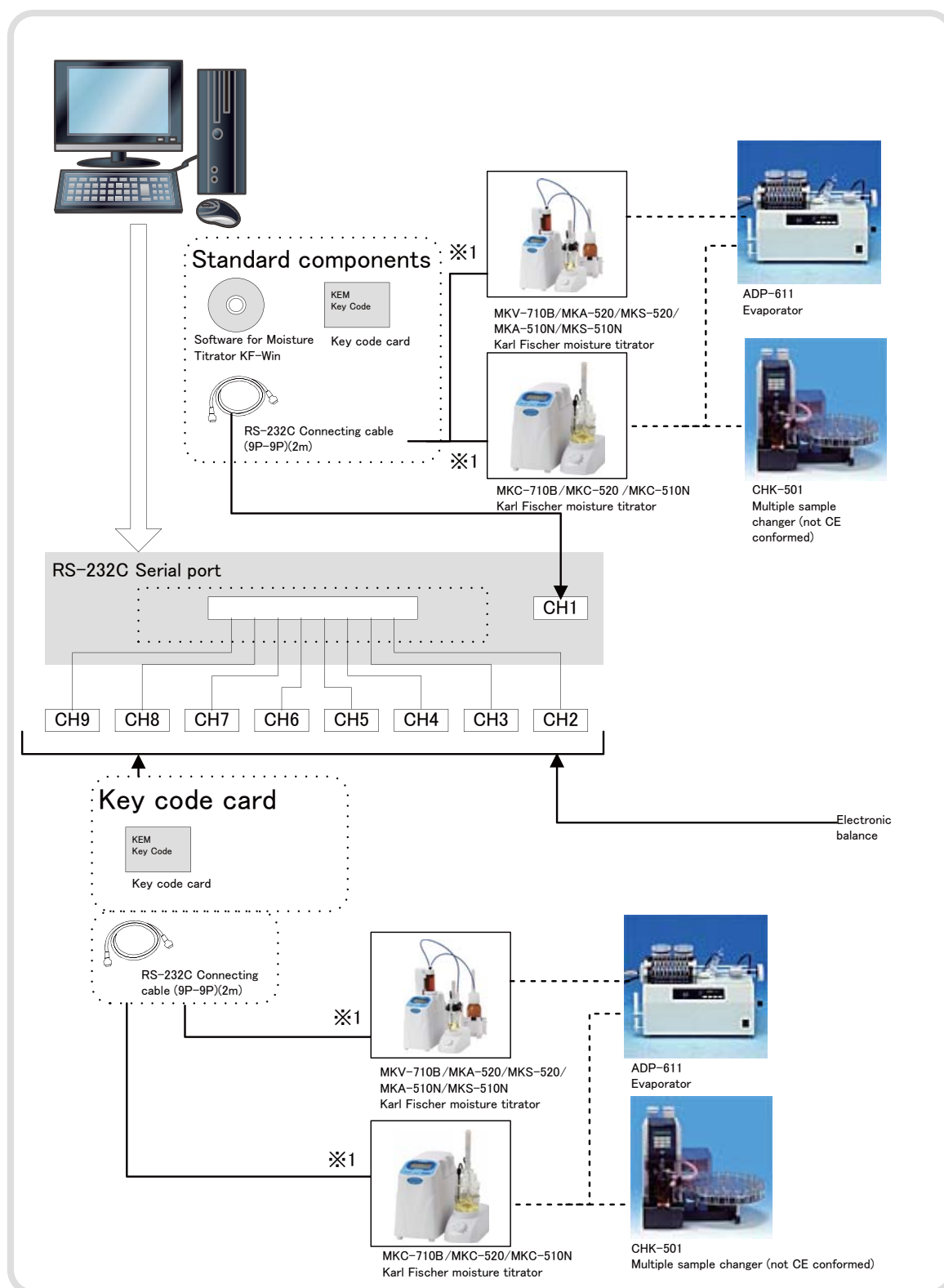

Connection of bar code reader

With the bar code reader connected to PC, it makes easy to input lot number or sample ID. A commercially available bar code reader can be used.

SYSTEM CONFIGURATION

Standard components ※1

Software for Moisture Titrator KF-Win

KEM Key Code — Key code card

RS-232C Connecting cable (9P-9P)(2m)

※1 MKV-710B/MKA-520/MKS-520/MKA-510N/MKS-510N Karl Fischer moisture titrator

※1 MKC-710B/MKC-520/MKC-510N Karl Fischer moisture titrator

ADP-611 Evaporator

CHK-501 Multiple sample changer (not CE conformed)

RS-232C Serial port

CH1

CH9 CH8 CH7 CH6 CH5 CH4 CH3 CH2

Electronic balance

Key code card

KEM Key Code — Key code card

RS-232C Connecting cable (9P-9P)(2m)

※1 MKV-710B/MKA-520/MKS-520/MKA-510N/MKS-510N Karl Fischer moisture titrator

※1 MKC-710B/MKC-520/MKC-510N Karl Fischer moisture titrator

ADP-611 Evaporator

CHK-501 Multiple sample changer (not CE conformed)

※1 In case of connecting MKV-710B or MKC-710B, MINIDIN8P-DSUB9PM cable is necessary.

KF-Win standard supplied parts

	Part name	Qty
1	KF-Win software CD including the operation manual	1
2	Connection Cable (9P-9P) 2m	1
3	Key code card ※2	1
4	KF-Win Installation manual	1

The following parts are needed to connect the second and additional equipment.
Key code card ※2
Connection Cable (9P-9P) 2m
Connection Cable (MINIDIN8P-DSUB9PM) (in case of connecting MKV-710B or MKC-710B)

※2 It is necessary for issuance of a Key code card for a user to notify the serial number of a titrator to KEM. (no notification needed to if you purchase the titrator and KF-Win software at the same time)

SPECIFICATION

Specification		Description
Model name		Software for Moisture titrator Model KF-Win
Display	Measurement screen	Real time display of titration curve, cell type and channel, sample No., Lot No.
	Parameter screen	Method parameter (conditions, formula, etc.), sample parameter (sample size, method file name, Lot No., sample name and constant, etc.)
	System information	Display of connected condition of titrator
Print		Measurement results, data list, method parameters, sample parameters. Printout into one sheet (4 data, 2 data, 1 data/sheet)
Calculation		Concentration conversion and equations for various measurements can be formularized
Data files		Measurement results and parameters saved in hard disk. Number of files depends on capacity of hard disk
Data processing	Statistics	Mean, standard deviation, relative SD
	Re-calculation	Sample size, Blank, constant, factor, Reagent factor, etc.
	Transfer data	Report in Word, Data saving in CSV or MDB format, External output to PC
Security		Identify with user ID and password . Management by operated item and level
Operating guide		Guiding messages like prompting steps, sample size input or commenting
GLP/GMP	Factor control	Notice of factor calibration date and recording
	Periodic check	Notice of check date with standard and record
	Operational record	Record of operation by KF-Win
Alarm message		Key entry, calculation error, malfunction alarm, etc.
Compatible model		MKC-710B, MKV-710B, MKC-520, MKA-520, MKS-520, MKC-510N, MKA-510N, MKS-510N

Required systems

Specification	Description
Computer	Able to run Windows 7 Professional (SP1 or later)
Operating system	Windows 7 Professional (SP1 or later) 32bit or 64bit
Others	Internet Explorer 8.0 or later, Adobe Acrobat Reader 9.0 or later
Memory	More than 1GB RAM
Hard disk	More than 40GB RAM for installation
Display	More than 1024*768 display
Disk driver	CD-RW driver or DVD-RAM
Serial port	RS232C D-sub male 9-pin or USB port with serial converter : 1 additional port for each titrator ※1 ※2

※1　1) Each KF Moisture Titrator requires its individual serial port. It is the same as an electric balance or a bar code reader
　　　　 is connected to the PC.
　　 2) Up to 4 titrators can be connected to one computer.
　　　　 Note that internal serial port may already be occupied with internal modem.
　　 3) Serial port(s) can be added by RS232C expansion board (option).
　　　　 Note: more than 1 slot for PCI bus, and PCI bus of Low Profile type may not be able to install.
※2　A USB serial converter is required via USB.

KEM KYOTO ELECTRONICS
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http://www.kyoto-kem.com

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