

SEKONIC

Communication Software
(FVM / VM series)

【FVM_RSComPro2012】

INSTRUCTION MANUAL

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NOTE: The software screen displays used in this manual may not reflect exactly the screen contents on your screen.

1. Setup

1-1 Before You Begin Setting Up

Before beginning setup, make sure your PC fulfills the following requirements.

Hardware requirements:

The following hardware is required to run this software.

OS : Windows XP SP2 ,Windows Vista,Windows 7 (32bit version)

RS232C cable: 9-pin straight cable.

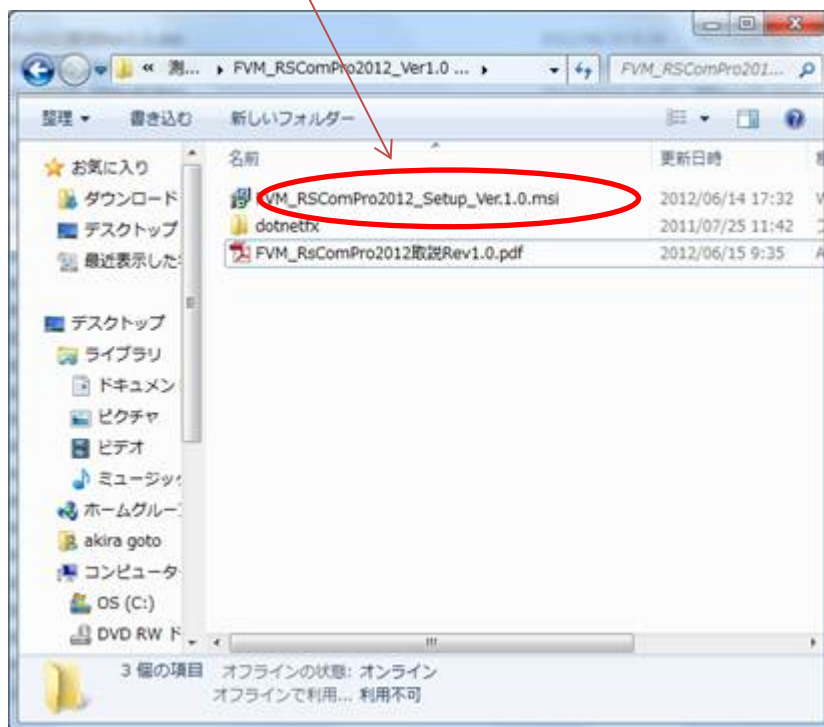
【NOTE】

This software is not guarantee for Windows 98,Windows ME ,Windoos2000.

IF you use Windows 98, this software dose not run according to circumstances.

1-2 Installing the Program

- ① Insert the CD disk labeled as "FVM_RSCoPro2012" into your CD disk drive.
- ② Click the " FVM_RSCoPro2012_Ver*****_Setup msi" . Start installing the program.



- ③ The " FVM_RSCoPro2012_ Setup " dialog box will appear. Following the instructions in the dialog box, install " FVM_RSCoPro2012"

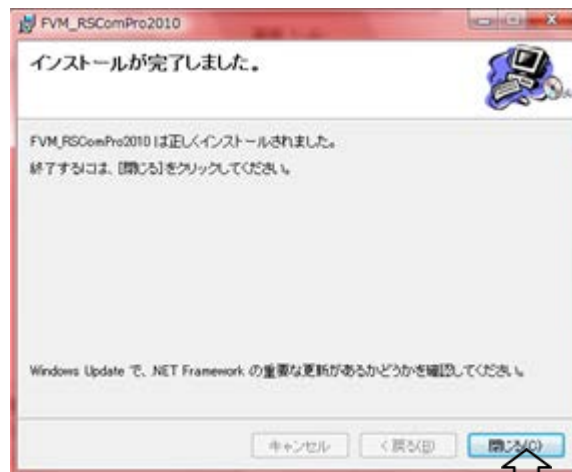


Click Next

Note:

If any other programs are running, discontinue the setup. Quit all the programs, and start the setup again.

- ④ Start installing the program.



Click Close

When the setup was completed successfully, the program folder for FVM_RSCoPro2012 will be created in Programs folder "C:\FVM_RSCoPro2012" inside Windows' Start menu.

2. Running FVM_RSCoPro2012

2-1. Measurement display

Before starting measuring, setting Controller type and the communication port.

- (1) Click on **【COM Port】** , and open a Setup of communication screen.

Chose the port of the connection to RS232C from COM Port.

(If you don't know the number of serial-port (COM-port),please check an instruction manual of your Personal computer)

- (2) Click on **【Controller Type】** , and open a Setup of c Controller Type screen.

Chose the controller type of a viscometer which you use

(VM10, VM100 , FVM70A,FVM80A(STC) ,FVM80A-EX)

Choose the unit when you choose FVM80A-EX1(SMC) and FVM80A-EX8(MC01).

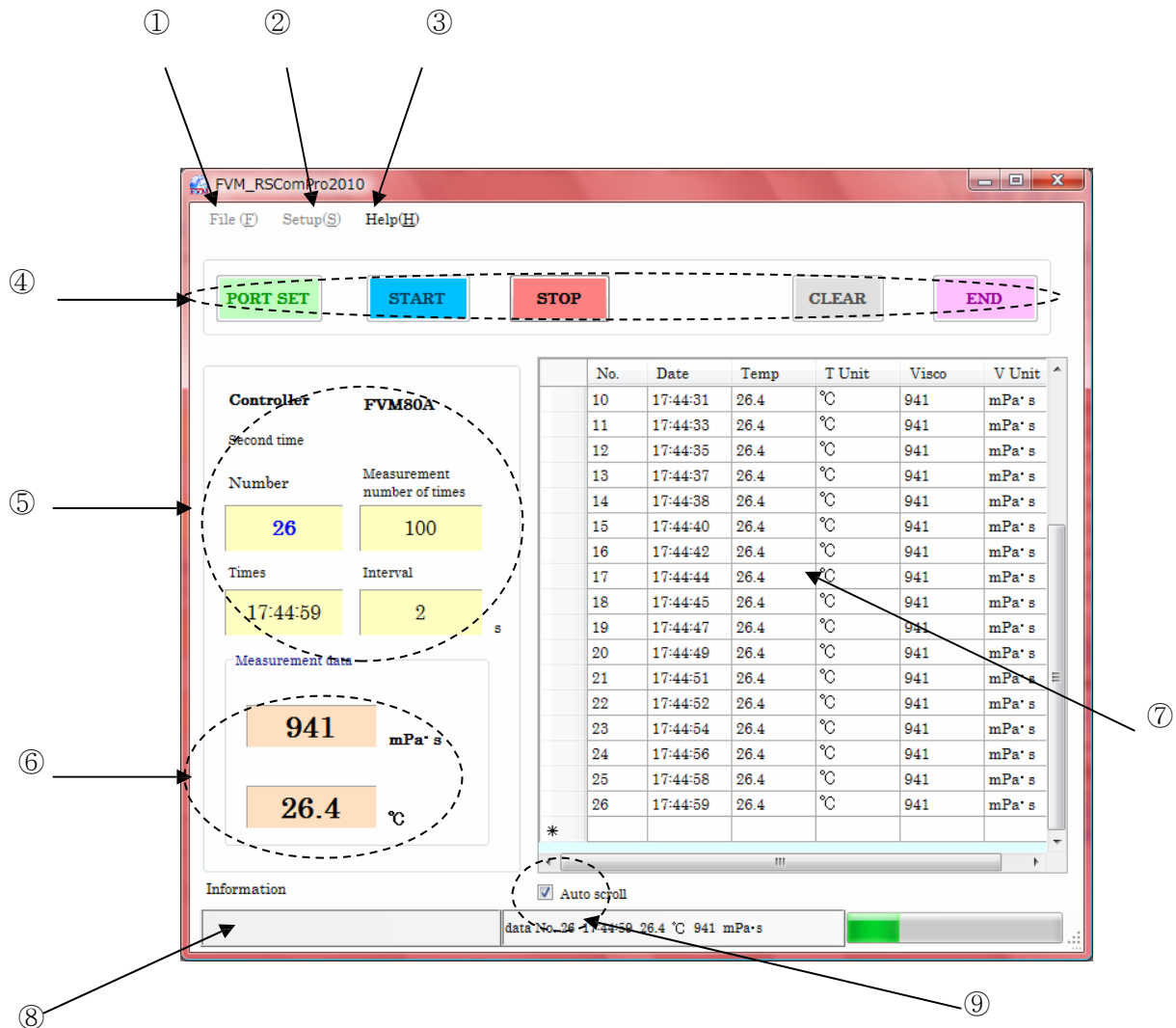
FVM70A	CH1
FVM80A-EX8	CH1 to 8

If input is finished, please click **【Close】** .When I you push the X button, setting content is not saved.



3. Measurement display

Following to explain the function of each part of the measurement scene.



- ① **【File】** The preservation of a file to finish "File" measuring is finished. (.CSV)
- ② **【Setup】** Setting the communication port ,Controller type and measurement condition
- ③ **【Help】** The version of the "Help" this program is displayed.
- ④ **【PORT SET】** COM Prot is opened.
- 【START】** Measuring is started.
- 【STOP】** Measuring is stopped.
- 【CLEAR】** Measuring data is deleted
- 【END】** This program is finished.

When I you push the × button, setting content is not saved.

The measuring number of times set up at present is displayed.

- ⑤ **【Controller】** The controller type of a viscometer used
- 【Number】** The number of the measuring data (imported data is displayed).

【Measuring number of times】

The measurement number of times set up at present is displayed.

【Times】 The latest measuring time is displayed.

【Interval】 Measuring interval.

⑥ **【Measurement data】**

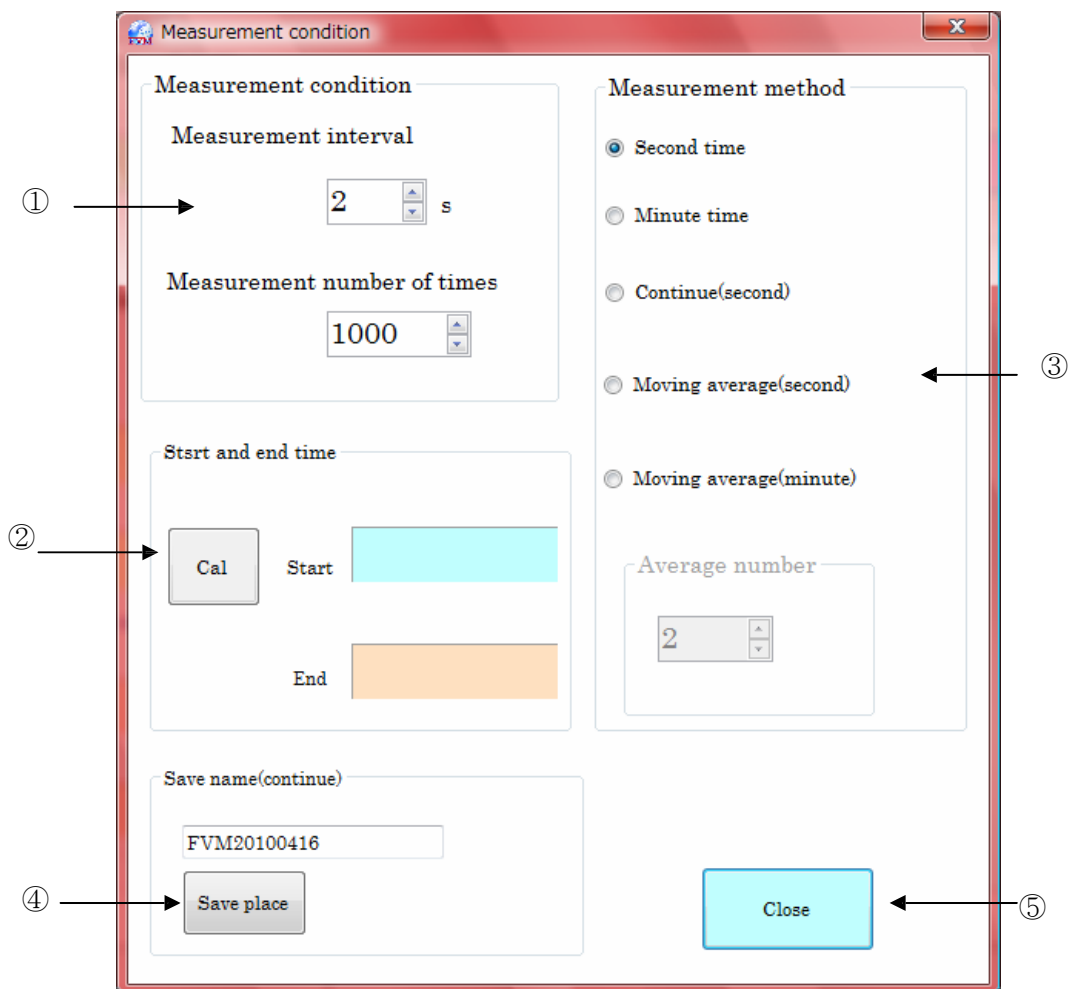
The measuring data of the viscosity meter is displayed.

⑦ The list of the measuring data is displayed.

⑧ **【information】** The measuring conditions is displayed

⑨ **【Auto scroll】** The check box for setting effective invalidity of the automatic scroll

4 Setup Measurement Condition



① Measurement condition

Measurement interval

You set a measurement interval to forward data from a viscometer.

Measurement number of times

You set the number of measurement.

The number of measurement is up to 20,000 times.

② Start and end time

③ Measurement method - you set measurement condition

1)Second time

Taking in measurements by a second interval

Setting value from 2 to 60 seconds

2)Minute time

Taking in measurements by a minute interval

Setting value from 1 to 60 minutes.

3)Continue(for second only, if you need more than 20000 data)

You continue measuring it while saving data in a csv form every number of measurement that you set automatically.

For example File name FVM20100415

1st file FVM20100415_1

2nd file FVM20100415_2

4)Moving average(second)

Display Moving average data for second interval

For Example the case of Average number is 5

X_n means the data of the n times.

$$\bar{X}_1 = \frac{X_1 + X_2 + X_3 + X_4 + X_5}{5}$$

$$\bar{X}_2 = \frac{X_2 + X_3 + X_4 + X_5 + X_6}{5}$$

$$\bar{X}_3 = \frac{X_3 + X_4 + X_5 + X_6 + X_7}{5}$$



$$\bar{X}_n = \frac{X_n + X_{n+1} + X_{n+2} + X_{n+3} + X_{n+4}}{5}$$

5)Moving average(minute)

Display Moving average data for minute interval

④ Save name(continue)

You set a file name and the destination of the data which I measured

⑤ Close

If input is finished, please click 【Close】 .When I you push the X button, setting content is not saved.

5 Troubleshooting

A. It would not receive any data from the viscosity meter.

Possible reasons for this problem are: the cable is not connected properly, the settings for the COM ports are invalid, the COM ports are disabled on the system, etc. In these cases, exit the program, click on "Control panel" icon, and make sure there is no conflict among other devices.

Note: RS-232C cable is used 9-pin straight cable.

B. Others

It is possible that the program does not run depending on the computer type. it might not operate properly because of the Windows version, or the difference between Notebook PC and Desktop PC.

Please contact us if you have any questions.

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