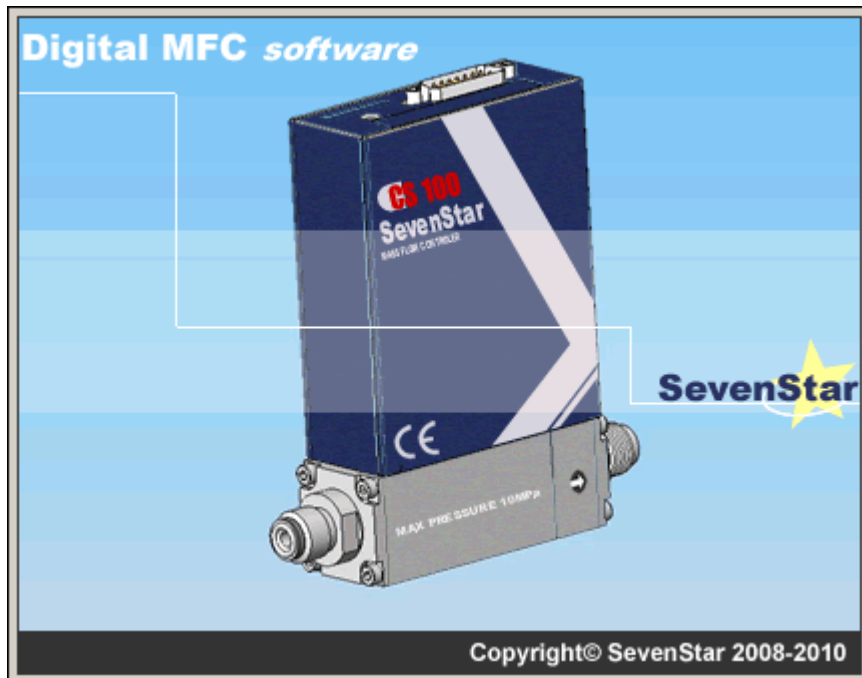# Digital MFC software V1.10

User's Manual

MTI Corporation

860 South 19th Street, Richmond, CA 94804, USA

Tel: 510-525-3070   Fax: 510-525-4705

E-mail: info@mtixtl.com   Web site: www.mtixtl.com

Table of Contents

Please note: This manual is only for you to get a quick get-through of the high vacuum system, to gain detailed information of each part, please carefully read the individual operation handbook, MTI will have no responsibility if any damage caused by misuse.

MTI has right to update the product without informing the customer which means the data in this manual may vary some time, please visit www.mtixtl.com for the latest information.

Introduction

Digital MFC software provides the friendly interface for easily access, controlling and monitoring the flow rate.

System requirement

    Minimum Requirements：   CPU P4 1.5GHz

    Memory 256M

    COM Serial Port

    Operation system：   Windows XP sp2 or Windows2000 sp4

Installation Procedure

Step 1，Insert the CD and run Digital MFC software application Setup.exe

Step 2，Select your own installation language, click "OK"

Step 3，Please follow the following instructions to finish the installation.
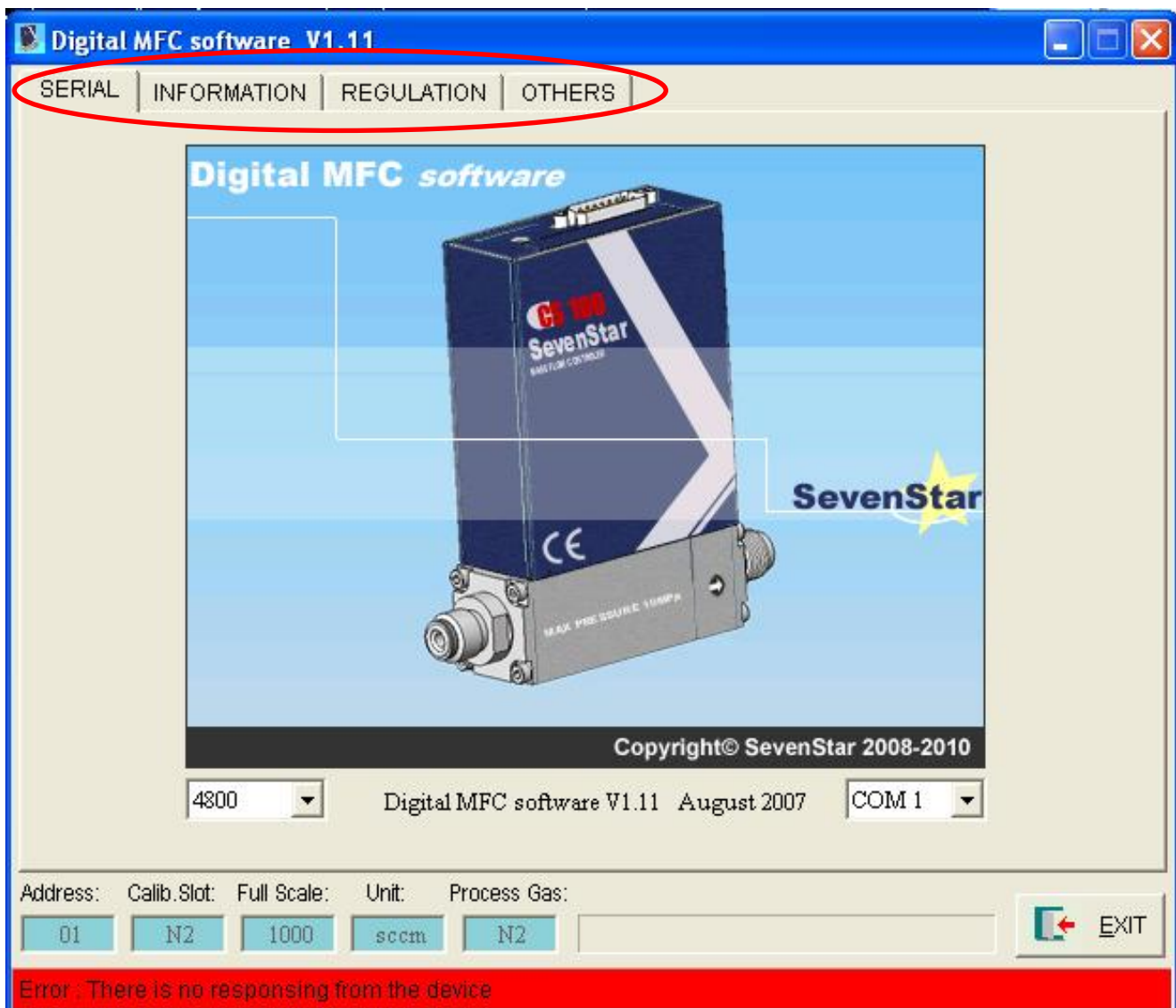
Operation Instruction

Run Application

Double click the icon as shown in the following picture.

Digital MFC
software
V1.00

The software will automatically search the connected device after starting the program.

1. Address will search from 32 to 96
2. Baud rate: 19200, 9600, 4800, 2400, 1200
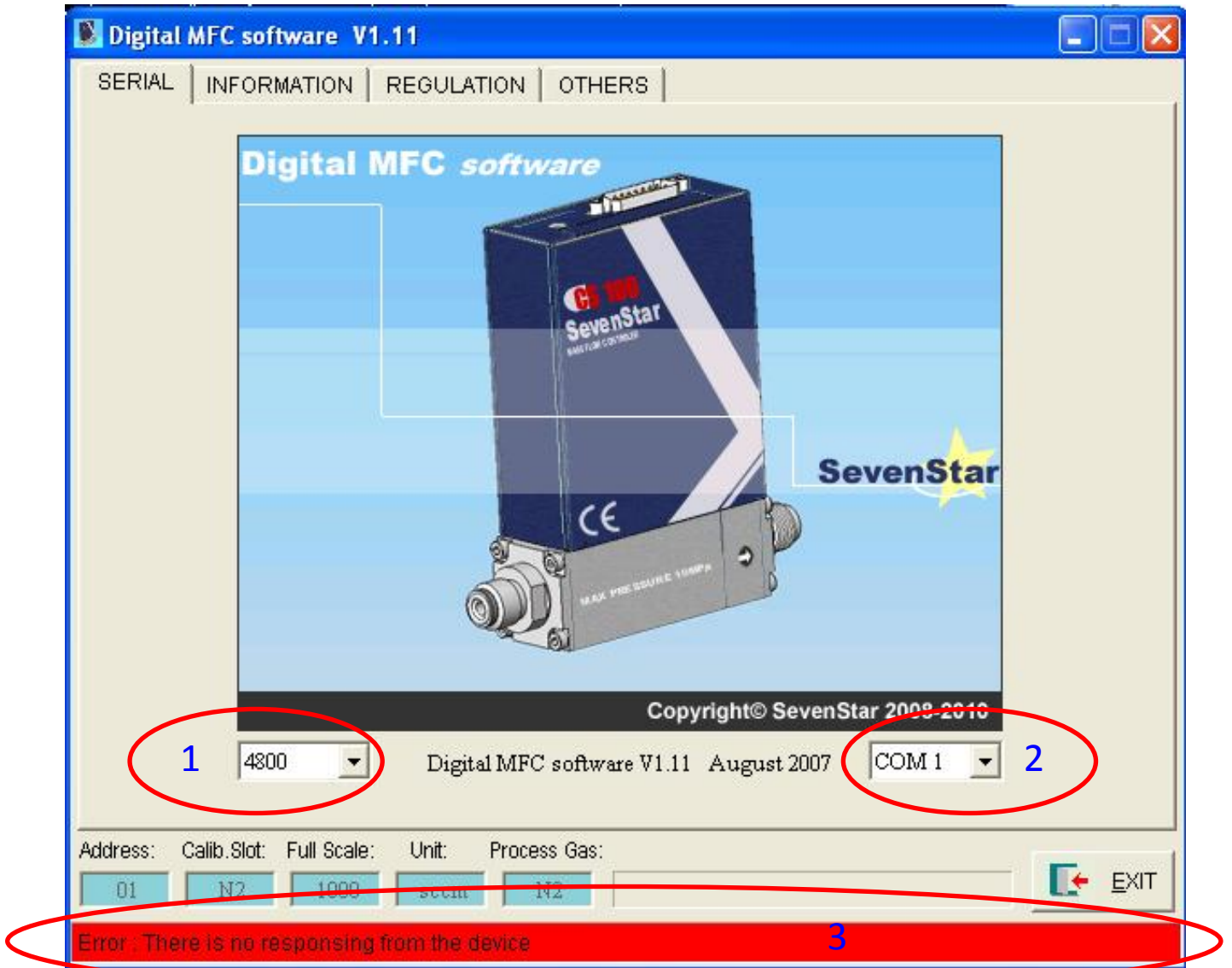3. Serial Port: From 1 to infinity

Function Module Instruction

Main Function of four modules including:
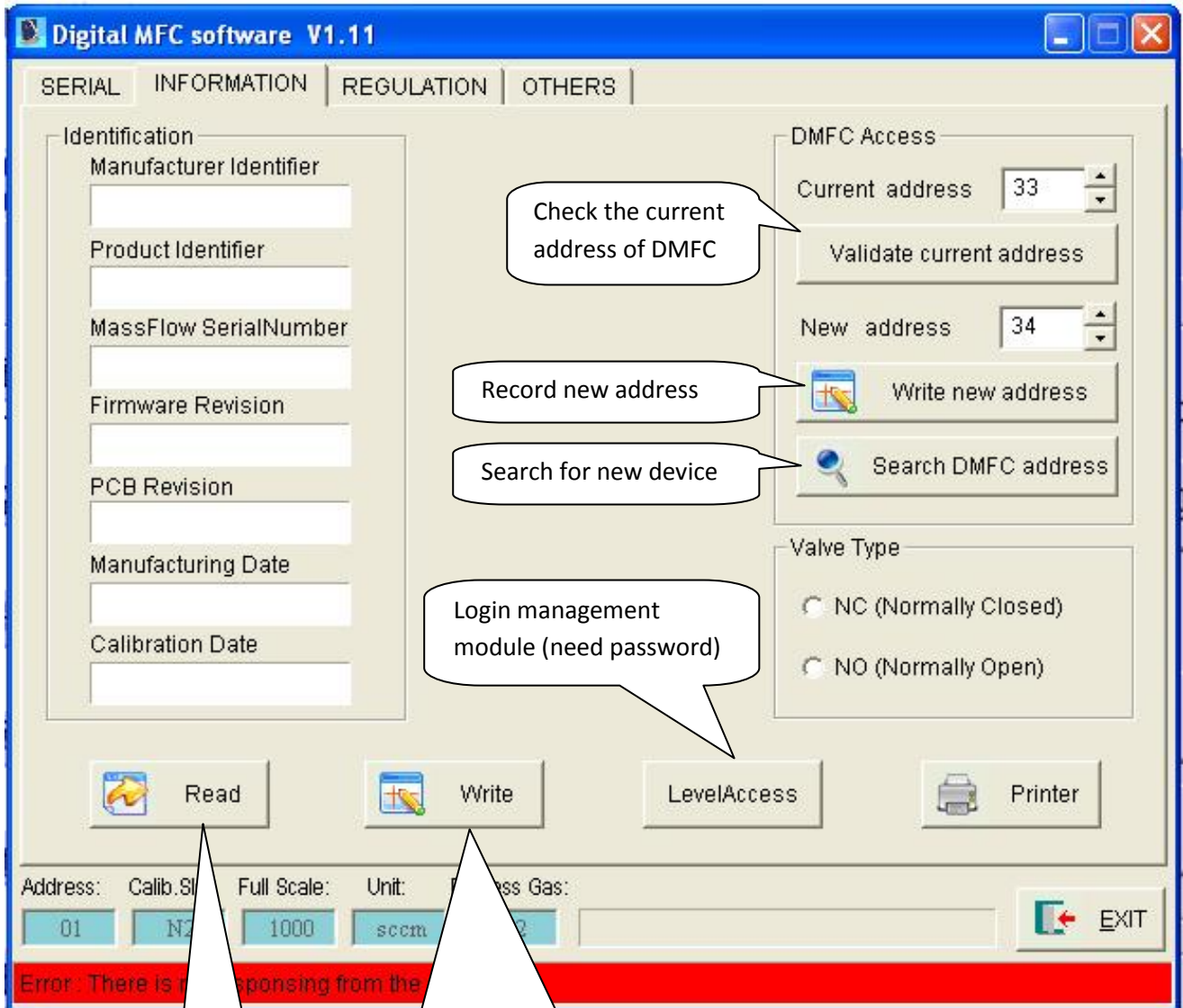
1. Serial
2. Information
3. Regulation
4. Others

Serial Module

Main function:

1. Baud Rate
2. Serial Port selection
3. Show information about the current status
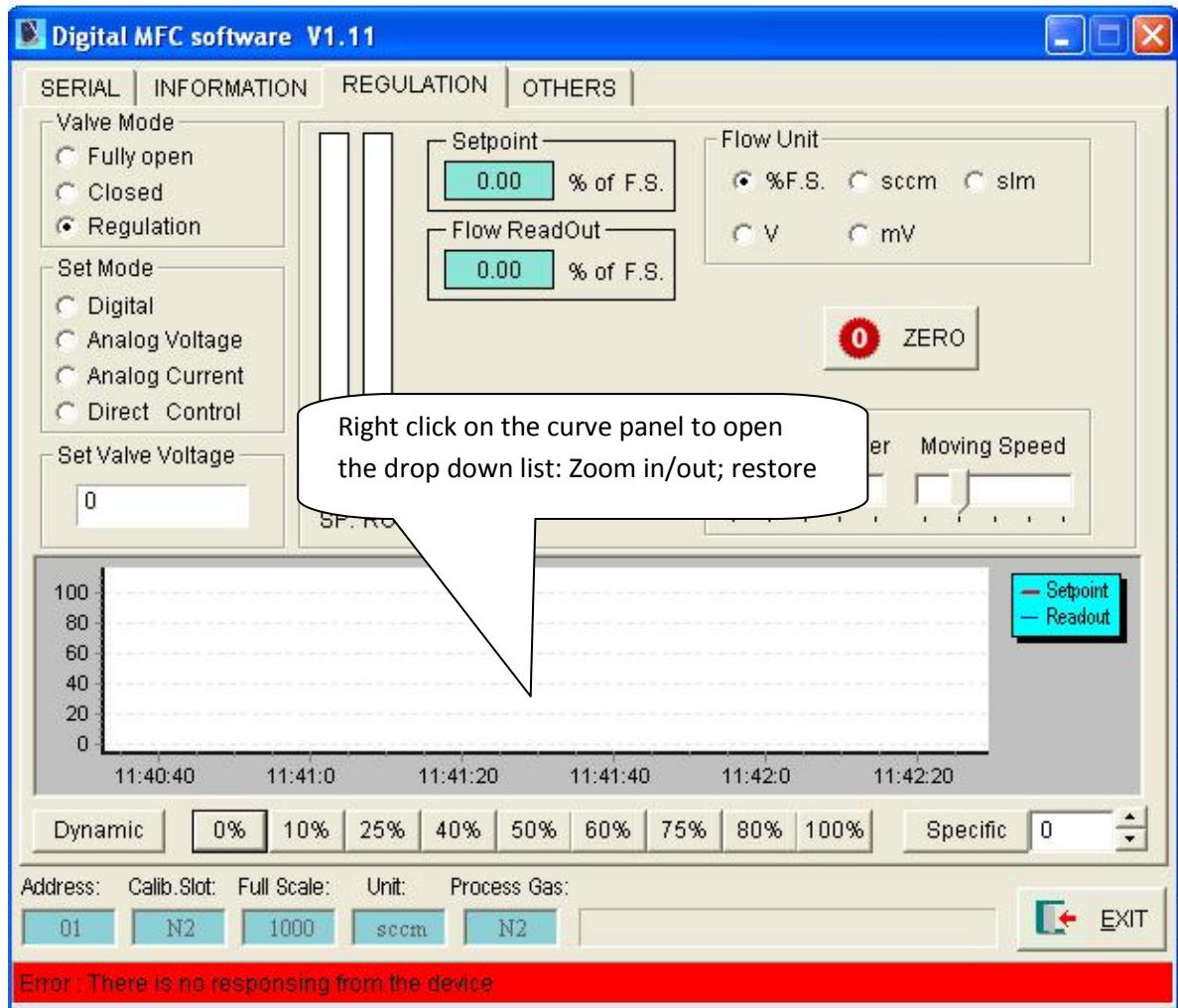
Information Module

Regulation Module
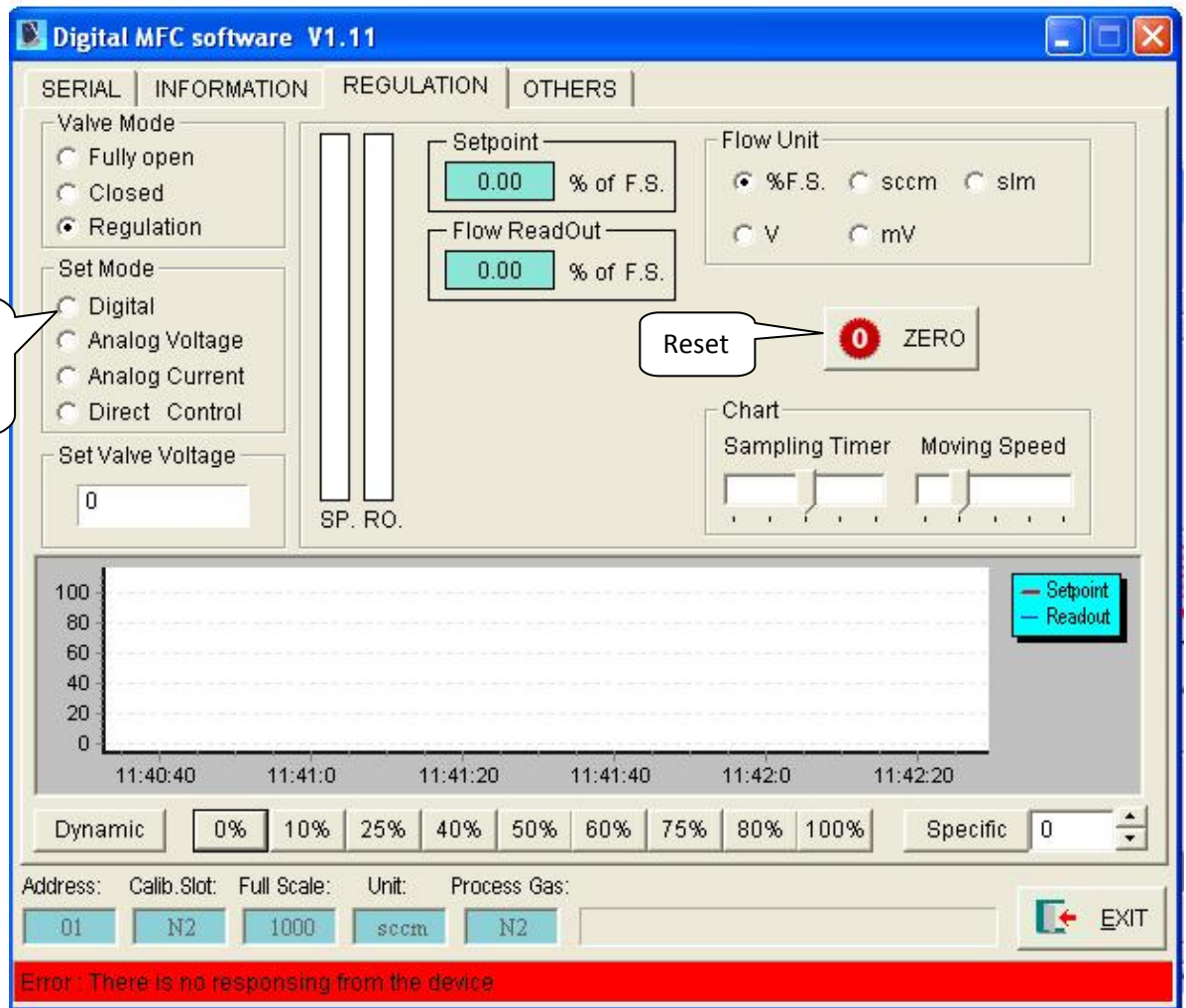
Function:

1. Gauge control model;

2. Digit, analog voltage, simulation current, diagnose mode;
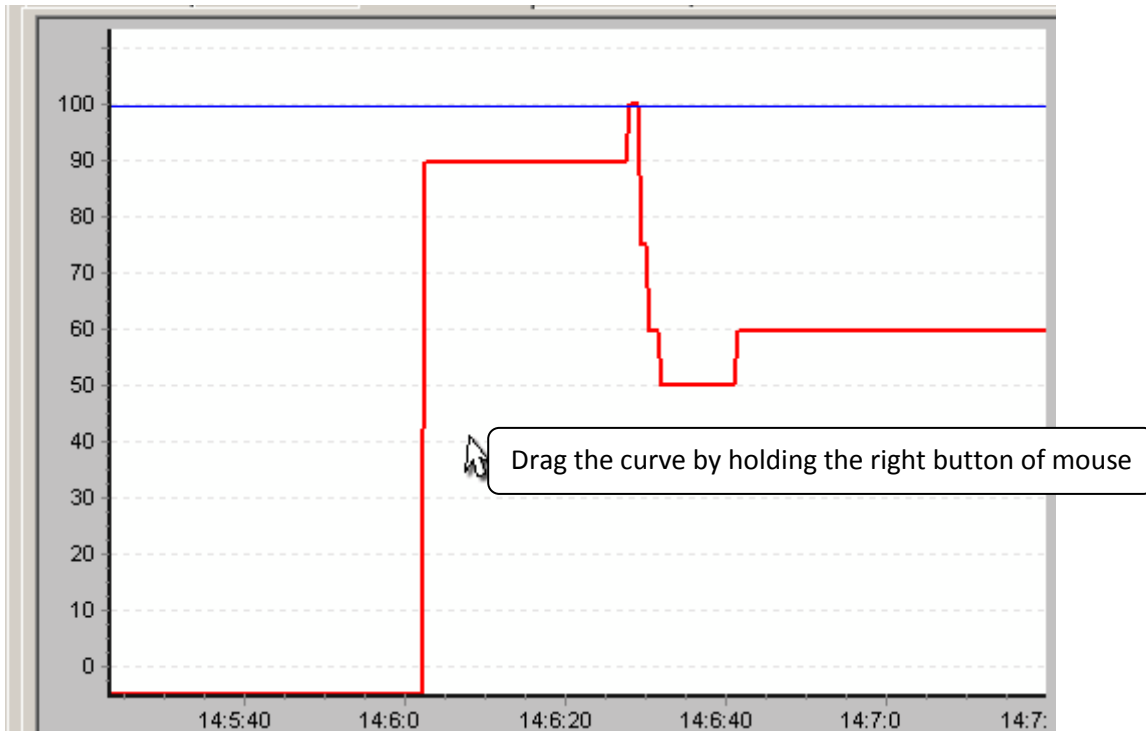
3. Reset
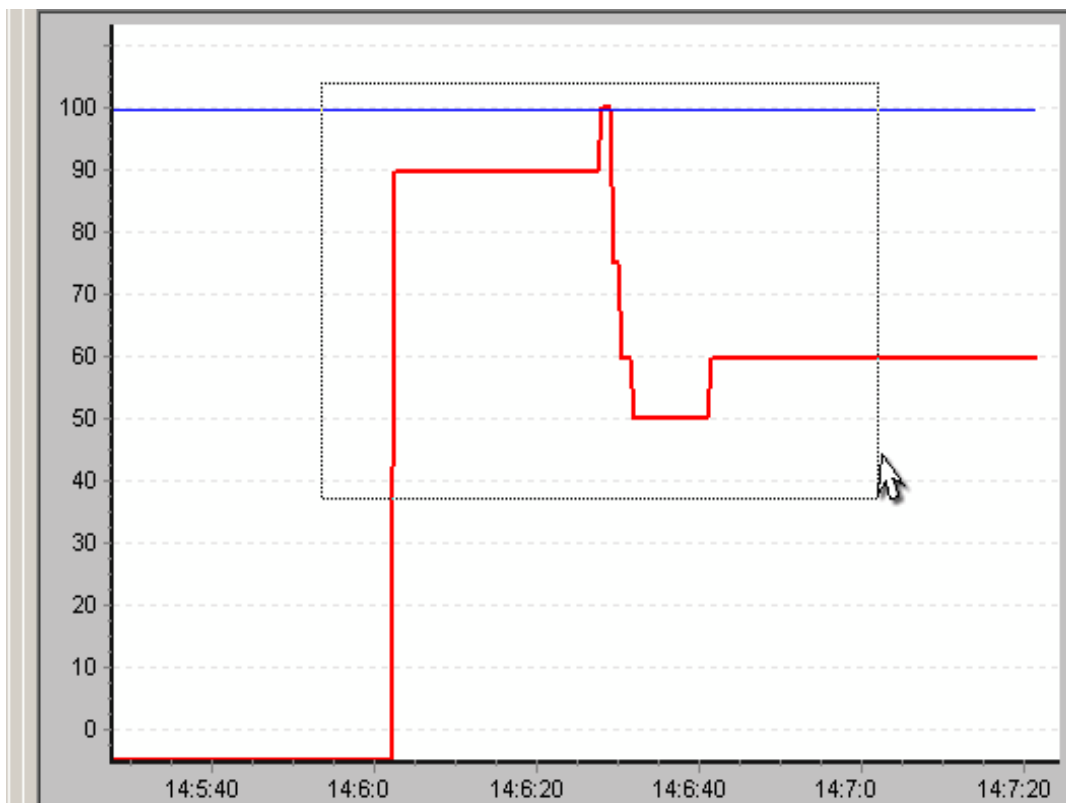
Flow rate setting

Curve instruction:

Function:

1. Zoom in and zoom out curve display.

2. Shortcut restore after zooming in.
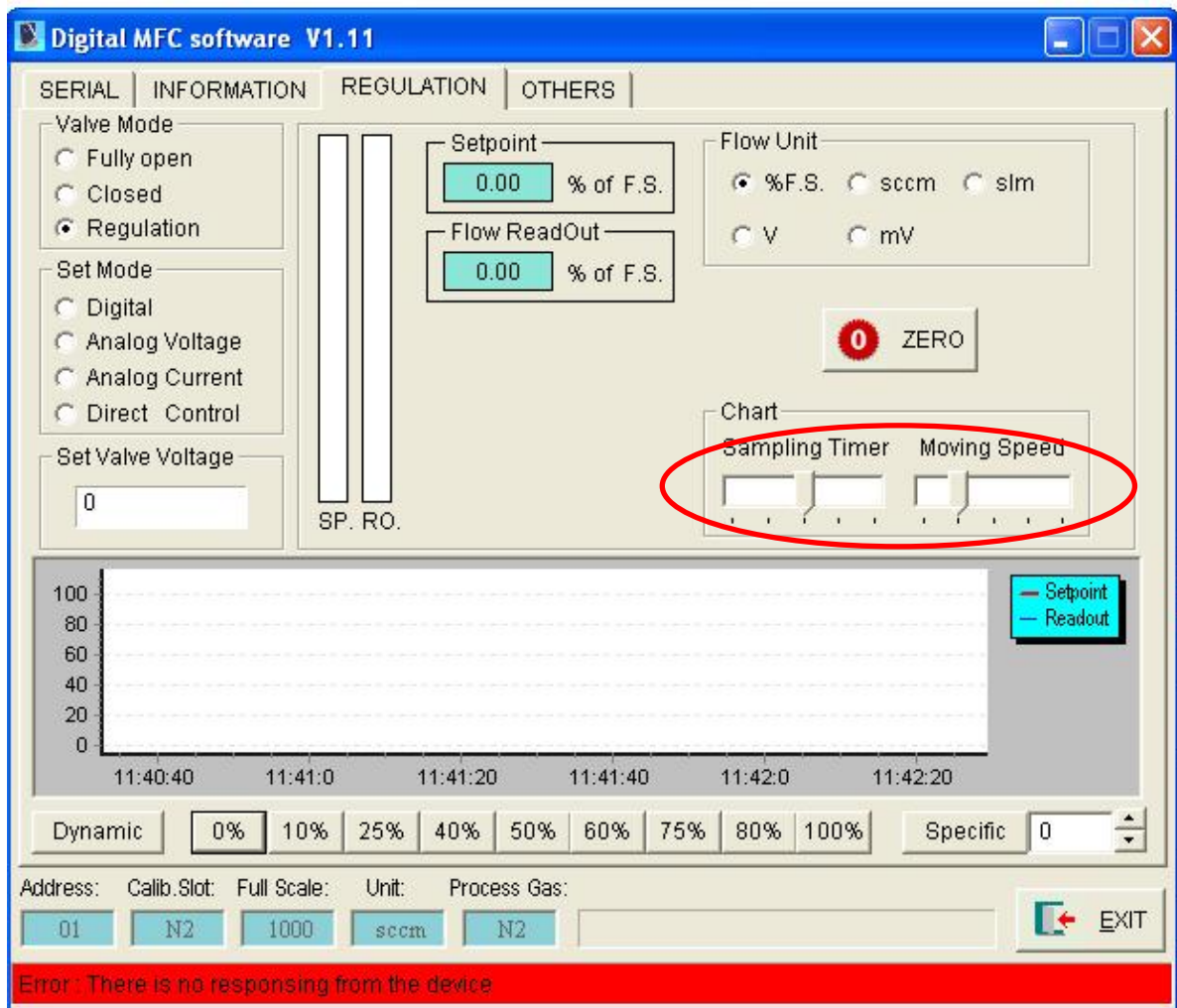
3. Curve moves, suspends and restores.

Moving Curves

Drag the curve by holding the right button of mouse

Enlarge selected area

Sampling Clock setting

Function:

1. Sampling clock setting—How many point will be recorded per second.
2. Curve moving speed—click and hold right button to set the curve moving speed

Others Module

Alarm

Function: Click to set alarm option.

Activate to monitor the set alarm

Alarm was activated if the color turns out to yellow

Function:

1. Alarm Activation

2. Alarm Clearance

3. Message Box

4. Alarm will be activated if the color turns out to yellow

Flow rate limitation

Function:

1. Activate the limitation.

2. Set the upper/lower limit. Alarm will be activated and the valve will fully open or close if the overflow existed.

3. Alarm if the color of status bar turns out to yellow.

4. Information tips in the status bar.

Accumulation

Function:

1. Read accumulate flow
2. Reset accumulate flow

Profile Saving

Function:

1. Active saving

2. Set the interval time of recording

3. Set the saving path

Others

Right click on the panel to send/receive data

Function:

1. Receive and sent data

Delay	Represent from zero to current setting. (ms)
Full Scale	Adjustable range from 30% sccm to 100% sccm
Zero Constant	Clear "saved zero point value".
Target Null	Customize the current additional value.
Valve Voltage	Read only, current voltage of valve
Shutoff Level	Shut off below this setting value
Soft Start Rate	Increasing percentage per second. Example: SoftStartRate=10,if the current setting is 100%,increasing rate will be 10% per second. Will reach 100% after 10 seconds.
Temperature	Sensor Temperature
Conversion	Gas conversion factor
Valve Mode	"0" represent STEC mode. "1" represent SEMI mode, "2" represent Sevenstar mode