

PC CONFIGURATOR SOFTWARE

Model: STCFG

Ver. 1.2

Users Manual

Contents

1. PREPARATION	3
1.1 APPLICABLE UNITS	3
1.2 PC REQUIREMENTS	3
1.3 INSTALLING THE STCFG.....	3
2. OPERATION.....	4
2.1 STARTING THE STCFG.....	4
2.2 LANGUAGE SETTING	4
2.3 SELECTING THE COM PORT	4
2.4 SETTING	5
2.4.1 Upload	5
2.4.2 Download	5
2.4.3 Save file.....	5
2.4.4 Open file	5
2.5 MONITORING.....	5
2.6 AUTO-SETUP	5
2.6.1 STARTING	5
2.6.2 Cancel.....	6
2.7 DIAGNOSTIC INFORMATION.....	6
2.7.1 Upload	6
2.7.2 Time ratio data.....	6

1. PREPARATION

1.1 APPLICABLE UNITS

The STCFG is applicable to the following units.

MODEL	VERSION
MSP10	1.0
MRP10	1.1
PSP10	1.2

Parameter configuration for each unit is available when the version of the software is same or later than the version written in the "version" in the above table.

1.2 PC REQUIREMENTS

The following PC performance is required for adequate operation of the STCFG.

PC	IBM PC compatible
OS	Windows 10 (32-bit, 64-bit), Windows 11 The software may not operate adequately in certain conditions.
CPU	Must meet the relevant Windows' requirements
Memory	
Software	Microsoft .NET Framework 4.5 - 4.8 must be installed.
Network port	USB 2.0 or later

Following cables are required to connect the unit and the network port of the PC.

MODEL	VERSION
MSP10	USB Type-C
MRP10	USB Type-C
PSP10	USB Type-C

1.3 INSTALLING THE STCFG

- 1) Select STCFG from "Download > Software download" in our web site, and download compressed file.
- 2) Unzip the downloaded compressed file, execute setup.exe or STCFG_Setup.msi in the STCFG folder, and start installing by following instructions on the screen. Click "Next" if not specify otherwise, then installing finishes.
- 3) M-SYSTEM>STCFG is ready in the "program" menu of the PC.

Note. Microsoft .NET Framework 4.5 - 4.8 is required to use this software.

Download and install it if you have not installed.

2. OPERATION

2.1 STARTING THE STCFG

Start up the "STCFG" from "Program" menu.
The main window as shown below will appear.

Setting items	Value
Model type	MSP10-1x
Tag	
Upper-stop position (mm)	0.00
Lower-stop position (mm)	10.00
Deadband (%)	0.1
Restart limiting timer (sec.)	0.1
Retract/UP signal position (%)	98.0
Extend/DOWN signal position (%)	2.0
Operating Speed	10
Auto-setup type	Lower seal spring
Lower seal spring contraction amount (mm)	0.1
Upper seal spring contraction amount (mm)	0.1
Stroke / operation distance (mm)	10.0
Input mode	Analog input
Node address	1

Monitor items	Value
Analog input (%)	0.0
Position (%)	0.0

2.2 LANGUAGE SETTING

Click "Language" and select English or Japanese from pull-down list to switch language.

2.3 SELECTING THE COM PORT

Connect the unit and the PC with connecting cable and turn on the power of the unit.
The connecting cable can be unplugged and plugged in with the unit is turned on.
Click "(Select the COM port.)" and select "USB Serial Port (COMx)" from the pull-down list.

2.4 SETTING

2.4.1 Upload

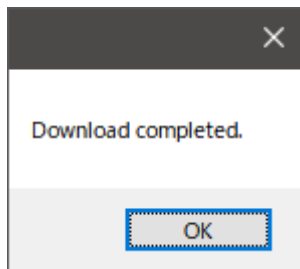
Click Upload button to upload settings and unit version from the unit.

2.4.2 Download

- 1) Edit the settings on the PC. For details of each setting parameter, refer to unit's users manual.
- 2) Click "Download" button to download the settings to the unit.

Be sure to set SW-8 on the unit to ON (manual mode) to download the settings.

A window shown below will appear when the download is completed. Click OK.



2.4.3 Save file

Click "Save file" button to save settings to the PC as setting file.

2.4.4 Open file

Click "Open file" button to open the setting file on the PC and shows on the setting screen.

2.5 MONITORING

Click "Start" button to start monitoring analog input status and opening position of the unit.

Monitoring is available despite the position of SW-8.

Click "Stop" button to stop monitoring.

2.6 AUTO-SETUP

2.6.1 STARTING

Click "Start" button to start auto-setup of the unit.

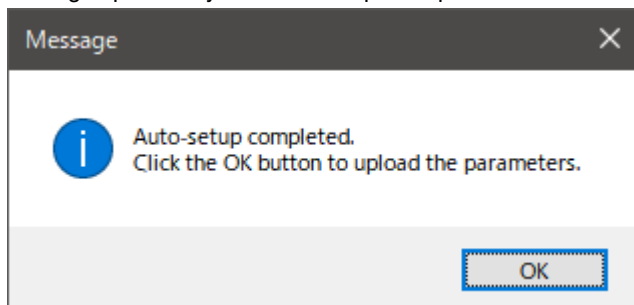
The unit starts operation, pay attention to the unit.

Be sure to set SW-8 on the unit ON (manual mode) to start auto-setup.

Auto-setup completed

A window as shown below will appear. Click OK.

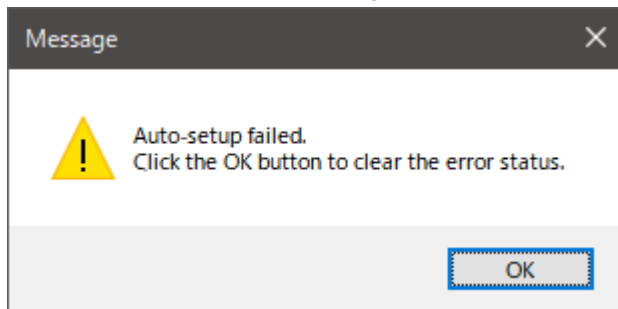
Settings updated by the auto-setup are uploaded from the unit.



Auto-setup failed

A window shown as below will appear. Click OK.

The ALARM LED on the unit changes to turn off from blinking.



2.6.2 Cancel

Click "Cancel" button to cancel the auto-setup.

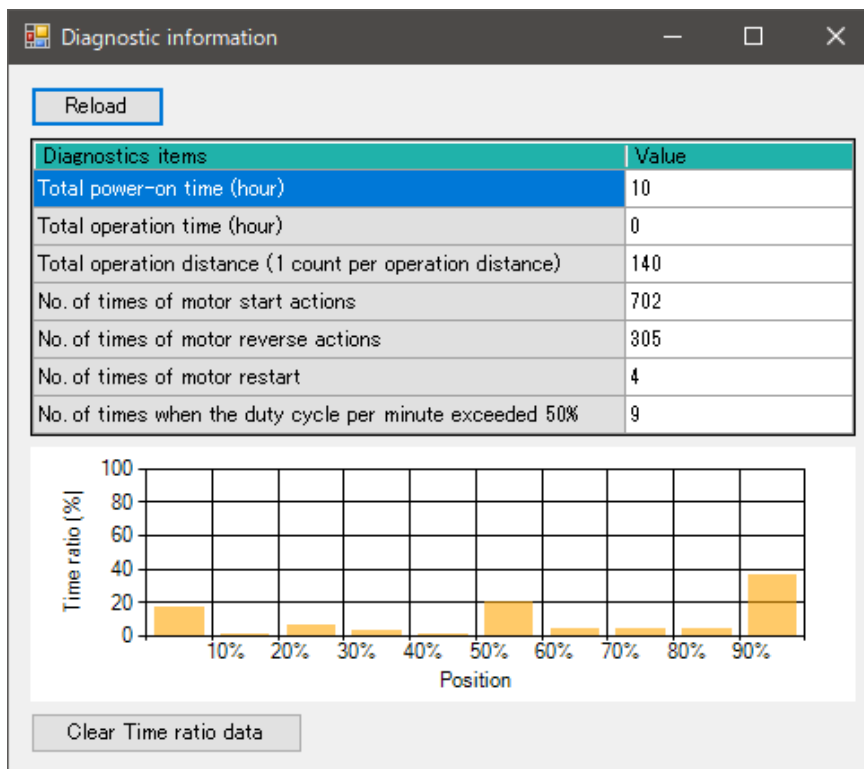
2.7 DIAGNOSTIC INFORMATION

2.7.1 Upload

Click upload button, then following window appears and uploads diagnostic information from the unit.

For details of each diagnostic item, refer to unit's users manual.

Click X on the upper right corner in the diagnostic information window to back to the previous window.



2.7.2 Time ratio data

The graph shows time ratio data.

Indicates which opening position is mainly used for the upper position setting (100%) - lower position setting (0%).

Click "Clear Time ratio data" button to clear previous time ratio data, and a new measurement from that point.

Other diagnostic information (total power on time to No. of times when the duty cycle per minute exceeded 50%) is not cleared.