## SC100/SC200 Series Multi-Function PID Controller

# PC CONFIGURATOR SOFTWARE Model: SCCFG

# **Users Manual**

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## 1. INTRODUCTION

Thank you for choosing the SC100/200 Series Multi-Function PID Controllers.

This manual describes software functions of PC Configurator Software model: SCCFG, PC environment and operation methods. Please refer to the relevant hardware users manuals for the detailed information about the terms used in this manual.

The SCCFG makes it easy and smooth to set parameters to the SC100/200 Series. Setting data and short trend data can be exported to CSV file via infrared communication.

LCD firmware version mentioned in the text can be confirmed on the screen of the Controller. Go to: Configuration view > Version > SC\_LCD Ver. X.XX.

## 2. BEFORE GETTING STARTED

#### 2.1 GENERAL DESCRIPTIONS

Unloading and saving sotting data	Configuration setting data saved in the Controller is uploaded to a PC via infrared com-
oploading and saving setting data	munication and saved in binary or CSV file format.
Downloading patting data	Configuration setting data saved in the PC is downloaded to the Controller via infrared
Downloading setting data	communication. Only binary format file can be transferred.
Creating abort trand data files*	Short trend data file received from the Controller via infrared is converted into CSV and
Creating short trend data mes*	saved.

 $\ast$ SC200, SC210, SC200D, SC200W and SC210W only.

#### 2.2 SYSTEM REQUIREMENTS

PC	IBM PC/AT or compatible
05	Windows 10 (32-bit / 64-bit), Windows 11 (64-bit)
03	Note: no guarantee for all environments
Resolution	1024 by 768 pixels or higher
Display color	65000 colors (16-bit)
USB Dort	Used to communicate with the Controller via Communication Adaptor model: COP-IRDA
USB Port	or COP-US.

### 3. MAIN DIALOG

Double-clicking SCCFG.exe icon starts the SCCFG to show Main Dialog as shown below.



- (1) "Uploaded from device" is indicated when [Upload from device] has been successfully completed. File name is indicated when [Read CFG file] has been successfully completed.
- (2) Device Model and LCD Ver. are indicated when [Upload from device] or [Read CFG file] has been successfully completed. (e.g. LCD Ver. : 1.0x)
- (3) The buttons become selectable once [Upload from device] or [Read CFG file] is complete.

MAIN DIALOG MENU						
	Upload from device	Setting data is uploaded from the Controller via infrared communication				
	Read CFG file	Setting data is read in from a file.				
	Download to dovice	Setting data is download to the Controller via infrared communication.				
Configuration	Download to device	New setting is valid only after the power supply is restarted.				
_	Write to CFG file	Setting data is saved in a file.				
	Export to CSV	Setting data is converted into CSV and saved.				
		Short trend data is acquired from the device via infrared and saved as				
Short trend data	Upload and export to CSV	CSV file.				
		Error occurs with models SC100 or SC110.				
COM Port		COM port for infrared communication is specified.				

## 4. COMMUNICATION

#### 4.1 COP-IRDA COMMUNICATION ADAPTOR

Use our Model COP-IRDA or COP-US to communicate with the Controller via infrared rays. Before using the COP-IRDA, install its driver in your PC. Refer to the instruction manual for the COP-IRDA for more information.

When the driver is installed correctly, the COP-IRDA is assigned to a COM port.



#### 4.2 SETTING ON THE CONTROLLER

Set only one Controller module to infrared communication mode at once when multiple devices line up side by side. Refer to the users manual for the Controller for more information to operate the Controller to activate the communication mode.

#### 4.3 COP-US COMMUNICATION ADAPTOR

Use our Model COP-US to communicate with the Controller with wired communication. Before using the COP-US, install its driver in your PC. Refer to the instruction manual for the COP-US for more information.

When the driver is installed correctly, the COP-US is assigned to a COM port.



#### 4.4 SETTING ON THE CONTROLLER

Refer to the users manual for the Controller for more information to operate the Controller to activate the communication mode.

## 5. COM PORT SETTING

Select COM No. assigned to the COP-IRDA or COP-US among COM1 to COM20.

P	ort settings		×
	COM port number		
	COM12:M-System COP-IRDA USB IrDA Ac	daptor (COM12)	•
	ОК	Cancel	

## 6. CONFIGURATION

#### 6.1 UPLOAD FROM DEVICE

Click on [Upload from Device] button to call up the setting data saved in the Controller.

#### 6.2 READ CFG FILE

Click on [Read CFG file]. The folder directory appears on the screen. Select a configuration file and click on [Open].

Open						? 🔀
Look jn:	📋 My Documen	ts	~	3 🦻	• 🖽 对	
My Recent Documents	My Music My Pictures temp.cfg					
My Documents						
My Computer	File <u>n</u> ame:	*.cfg			~	<u>O</u> pen
My Network	Files of <u>type</u> :	Parameter Files(*.cfg) Open as read-only			~	Cancel

#### 6.3 DOWNLOAD TO DEVICE

Click on [Download to device] button to write the setting data presently on the screen. All data except for the port setting is downloaded.

The table below shows relevant parameters.

PARAMETER	Write (X)
Back light brightness	Х
Screen saver (time)	Х
MV-0/100% symbol	х
Loop display (MV, OP)	Х
Loop variables	Х
Graph scale divisions	Х
Decimals (% display)	Х
Alarm blinking	Х
Bargraph color	Х
Digital display color	Х
Trend recording	Х
Storing interval	Х
Trend channel	Х
Trend graph color	Х
Selected loop color	Х
Touch tone	Х
Home	Х
Select operation view	Х
Select unit mode	Х
Modbus-RTU	No
Modbus/TCP	No
Language	Х
Parameter setting*1	Х
PRG mode indicator*2	Х
Numerical key control*2	Х

\*1. For Range Hi limit, Range Lo limit and Decimal place, LCD firmware version 1.5x or later

\*2. LCD firmware version 1.5x or later

#### 6.3.1 WRITE TO DEVICE WITH DIFFERENT LCD FIRMWARE VERSION

When the LCD firmware version of setting data, which is created by "READ CFG FILE" or "DOWNLOAD TO DEVICE", is different from the LCD firmware version of destination device, the data may change to factory setting value depending on configuration item. Except following configuration items, the data can be handed over even LCD firmware is different.

• When reading configuration of LCD firmware version 1.3x or 1.4x and writing to the device with LCD firmware version 1.5x or later.

LCD firmware version of read data:

Ver. 1.3x (SC100, SC110, SC200, SC210)

Ver. 1.4x (SC100, SC110, SC200, SC210)

LCD firmware version of destination device:

Ver. 1.5x or later

CONFIGURATION ITEM	DATA
User's parameter table item (Range Hi limit, Range Lo limit and Decimal place)	Factory setting*
PRG mode indicator	Factory setting*
Numerical key control	Factory setting*

\*Refer to 6.7 CONFIGURATION ITEM LIST

#### 6.4 WRITE TO CFG FILE

Click on [Write to CFG file]. The folder directory appears on the screen. Type the name and click on [Save].

Save As								? 🗙
Save jn:	📋 My Document	\$	~	G	ø	P 🛙	•	
My Recent Documents	My Music My Pictures temp.cfg							
Desktop								
My Documents								
My Computer	File <u>n</u> ame:	temp.cfg				*		<u>S</u> ave
<b></b>	Save as <u>t</u> ype:	Parameter Files(*.cfg)				~		Cancel
My Network								

#### 6.5 EXPORT TO CSV

Click on [Export to CSV]. The folder directory appears on the screen. Type the name and click on [Save].

Save As						? 🔀
Save jn:	📋 My Document	\$	~	G 💋	i 📂 🖽	
My Recent Documents Desktop	C My Music					
My Computer						
	File <u>n</u> ame:	SC100.csv			*	<u>S</u> ave
My Network	Save as type:	*.csv			~	Cancel

#### 6.6 CONFIGURATION DATA IN CSV FORMAT

For LCD firmware version 1.3x, 1.4x (SC100, SC110, SC200, SC210)

SC210 Configuration	LCD Ver. 1.3x, 1.4x		
Group	Item	Data	
Back light brightness		5	
Sereen cover (time)		0	min
Screen saver (unie)		0	(0=OFF)
MV 0/100% symbol	MV1 100% symbol	OP	
	MV1 0% symbol	CL	
	MV2 100% symbol	OP	
	MV2 0% symbol	CL	
Loop display (MV/OP)	LP1 display (MV)	1 🛌	
	LP2 display (MV)	2	
Loop variables		PV/SP/MV	
Graph scale divisions		10	
Decimals (% display)		1	
Alarm blinking		Enable	
Bargraph color	PV1 Normal	5	
	PV1 Hi limit	1	
	PV1 Lo limit	4	
	PV2 Normal	5	
	PV2 Hi limit	1	
	PV2 Lo limit	4	
	SP1 Normal	8	
	SP2 Normal	8	
	MV1 Normal	13	
	MV1 Hi limit	12	
	MV1 Lo limit	14	
	MV2 Normal	13	
	MV2 Hi limit	12	
	MV210 limit	14	
Digital display color	PV1	16	
Bigital display color	PV2	16	
	SP1	16	
	SP2	16	
	MV/1	16	
	NV2	10	
		10	
		10	
	FN2	10	
	FN3	10	
<del></del>	FIN4	16	
Irend recording		Start	
Storing interval		10 sec	
Irend channel	LP1 CH1	PV1	
	LP1 CH2	SP1	
	LP1 CH3	MV1	
	LP1 CH4	None	
	LP2 CH1	PV2	
	LP2 CH2	SP2	
	LP2 CH3	MV2	
	LP2 CH4	None	
Trend graph color	LP1 CH1	1	
	LP1 CH2	4	
	LP1 CH3	5	
	LP1 CH4	8	
	LP2 CH1	1	
	LP2 CH2	4	
	LP2 CH3	5	
	LP2 CH4	8	
Selected loop color		7	
Touch tone		Enable	
Home	Begistered view	Digital	
	Registered loop number	1	
Soloot operation view	Digital	Fnablo	
Select operation view	Bargraph	Enable	
	Dual laca barrierab	Enable	
	Short transf		
Coloct unit models			
Select unit mode	Digital	Selectable	
	Bargraph	Selectable	

Modbus-RTU	Node address	1		1				
	Transfer rate	38400	bps					
	Data bit (8 bit)	8	bit	11 –				
	Parity	Odd		ີ 🔶 🤤 ຣ	SC200/SC210	) only		
Modbus/TCP	IP address	192.168.0.1						
	Subnet mask	255.255.255.0		1				
	Port No. (502 fixed)	502		1				
	Linger time	180	sec	1				
Language		English		1				
User's parameter table	Setting	Parameter	GROUP	ITEM	DATA Hi limit	DATA Lo limit	DATA decimal place	DATA engineering unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
	Disable	Name	0	0	10000	0	2	Unit
L	1	-	1	1				

#### For LCD firmware version 1.5x or later (SC100, SC110, SC200, SC210)

SC210 Configuration	LCD Ver. 1.5x		
Group	Item	Data	
Back light brightness		5	
		0	min
Screen saver (time)		0	(0=OFF)
MV 0/100% symbol	MV1 100% symbol	OP	
	MV1 0% symbol	CL	
	MV2 100% symbol	OP	
	MV2 0% symbol	CL	
Loop display (MV/OP)	LP1 display (MV)	1	
	LP2 display (MV)	2	
Loop variables			
Graph scale divisions		10	
Decimals (% display)		l Enabla	
Rargraph color	DV/1 Normal	Enable 5	
Dargraph color	PV1 Hi limit	1	
	PV1 Lo limit	1	
	PV2 Normal	5	
	PV2 Hi limit	1	
	PV2 Lo limit	4	
	SP1 Normal	8	
	SP2 Normal	8	
	MV1 Normal	13	
	MV1 Hi limit	12	
	MV1 Lo limit	14	
	MV2 Normal	13	
	MV2 Hi limit	12	
	MV2 Lo limit	14	
Digital display color	PV1	16	
	PV2	16	
	SP1	16	
	SP2	16	
	MV1	16	
	MV2	16	
	FN1	16	
	FN2	16	
	FIN3	16	
Trond recording		Stort	
Storing interval		10 500	
Trend channel	LP1 CH1	PV1	
	LP1 CH2	SP1	
	I P1 CH3	MV1	
	LP1 CH4	None	
	LP2 CH1	PV2	
	LP2 CH2	SP2	
	LP2 CH3	MV2	
	LP2 CH4	None	
Trend graph color	LP1 CH1	1	
	LP1 CH2	4	
	LP1 CH3	5	
	LP1 CH4	8	
	LP2 CH1	1	
	LP2 CH2	4	
	LP2 CH3	5	
Colostad Issue Isu	LP2 CH4	8 7	
Selected loop color		/ Enable	
Home	Begistered view	Digital	
	Registered loop number	טועונמו 1	
Select operation view	Digital	Fnable	
Select operation view	Bargraph	Fnable	
	Dual-loon hardranh	Enable	
	Short trend	Enable	
	User's parameter	E. able	
	table	Enable	
Select unit mode	Digital	Selectable	
	Bargraph	Selectable	

PRG mode indicator			ON			]					
Numerical key control	SP1		Enable								
	MV1		Enable								
	SP2		Enable								
	MV2		Enable								
Modbus-RTU	Node add	ress	1								
	Transfer ra	ate	38400		bps						
	Data bit (8	bit)	8		bit						
	Parity		Odd			🗕 S	C200/SC	210 only			
Modbus/TCP	IP address	3	192.168.	0.1							
	Subnet ma	ask	255.255.	255.0							
	Port No. (5	502 fixed)	502								
	Linger tim	e	180		sec						
Language		-	English								
User's parameter table	Setting	Parameter	GROUP	ITEM	Range Hi limit	Range Lo limit	Decimal place	Engineer- ing unit	DATA Hi limit	DATA Lo limit	DATA deci- mal place
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2

#### For LCD firmware version 2.0x or later (SC100, SC110, SC200, SC210)

SC210 Configuration	LCD Ver. 1.5x		
Crown	Itom	Data	
Group Back light brightness	Item	Data	
Dack light brightness		5	min
Screen saver (time)		0	(0=OFF)
MV 0/100% symbol	MV1 100% symbol	OP	
	MV1 0% symbol	CL	
	MV2 100% symbol	OP	
	MV2 0% symbol	CL	
Loop display (MV/OP)	LP1 display (MV)	1	
	LP2 display (MV)	2	
Loop variables		PV/SP/MV	
Graph scale divisions		10	
Decimais (% display)		l Enabla	
Bargraph color	P\/1 Normal	5	
Dargraph color	PV1 Hi limit	1	
	PV1 Lo limit	4	
	PV2 Normal	5	
	PV2 Hi limit	1	
	PV2 Lo limit	4	
	SP1 Normal	8	
	SP2 Normal	8	
	MV1 Normal	13	
	MV1 Hi limit	12	
	MV1 Lo limit	14	
	MV2 Normal	13	
	MV2 Hi limit	12	
	MV2 Lo limit	14	
Digital display color	PV1	16	
	PV2	16	
	SP1	16	
	SP2	16	
	MV2	16	
	FN1	16	
	FN2	16	
	FN3	16	
	FN4	16	
Trend recording		Start	
Storing interval		10 sec	
Trend channel	LP1 CH1	PV1	
	LP1 CH2	SP1	
	LP1 CH3	MV1	
	LP1 CH4	None	
	LP2 CH1	PV2	
	LP2 CH2	SP2	
		Nono	
Trend graph color		1	
	L P1 CH2	4	
	LP1 CH3	5	
	LP1 CH4	8	
	LP2 CH1	1	
	LP2 CH2	4	
	LP2 CH3	5	
	LP2 CH4	8	
Selected loop color		7	
Touch tone		Enable	
Home	Registered view	Digital	
	Registered loop number	1	
Select operation view	Digital	Enable	
	Bargraph	Enable	
	Dual-loop bargraph	Enable	
	Short trend	∟nable	
	table	Enable	
Select unit mode	Digital	Selectable	
	Bargraph	Selectable	

PRG mode indicator			ON								
Numerical key control	SP1		Enable			1					
	MV1		Enable			1					
	SP2		Enable								
	MV2		Enable			1					
Modbus-RTU	Node add	ress	1			17					
	Transfer ra	ate	38400		bps	1					
	Data bit (8	bit)	8		bit						
	Parity		Odd			] 🔶 🚽 S	C200/SC	210 only			
Modbus/TCP	IP address	6	192.168.	0.1				)			
	Subnet ma	ask	255.255.	255.0		]					
	Default ga	teway	0.0.0.0								
	Port No. (5	502 fixed)	502								
	Linger time	е	180		sec						
Language			English								
User's parameter table	Setting	Parameter	GROUP	ITEM	Range Hi limit	Range Lo limit	Decimal place	Engineer- ing unit	DATA Hi limit	DATA Lo limit	DATA deci- mal place
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2

#### For SC200D

SC200D Configuration	LCD Ver. 1.0x		
Group	Item	Data	
Back light brightness		5	
Screen saver (time)		0	min
		0	(0=OFF)
MV 0/100% symbol	MV1 100% symbol	OP	
	MV1 0% symbol	CL	
	MV2 100% symbol	OP	
	NV2 0% Symbol	GL	
Loop display (MV/OP)	LPT display (IVIV)	1	
	LP2 display (IVIV)		
Croph agala divisions		10	
Desimals (% display)		10	
Alarm blinking		I Epoblo	
Alarm Dilliking	D\/1 Normal	Enable	
Bargraph color	PVI Norrial	1	
	PVI DI IIIIII	1	
	PVI LO IIIIII	5	
	FV2 NOTTIAI	3	
	PV2 Lolimit	1	
	SP1 Normal	ч 0	
	SP2 Normal	0	
	MV/1 Normal	12	
	MV/1 Li limit	10	
		12	
	MV I LO IIMIt	14	
	NV2 Normal	13	
	MV2 HI limit	12	
Distat dission and an	NV2 LO IIMIT	14	
Digital display color	PVI	16	
	PV2	16	
	SP1	16	
	SP2	16	
	MV1	16	
	MV2	16	
	FN1	16	
	FN2	16	
	FN3	16	
	FN4	16	
Irend recording		Start	
Storing Interval		IU SEC	
Irend channel	LP1 CH1	PV1	
	LP1 CH2	SP1	
	LPT CH3		
	LPT CH4	None	
		PV2	
		0F2 MV2	
		Nono	
Trend graph color		1	
nenu graph color		4	
		5	
		8	
		1	
		4	
	L P2 CH3	5	
	L P2 CH4	8	
Selected loop color		7	
Touch tone		, Fnahle	
Home	Begistered view	Digital	
	Registered loop number	1	
Select operation view	Digital	Fnablo	
Select operation view	Bararanh	Enable	
	Dual-loop bararaph	Enable	
	Short trand	Enable	
		LIIaule	
	table	Enable	
Select unit mode	Digital	Selectable	
	Bargraph	Selectable	

PRG mode indicator			ON								
Numerical key control	SP1		Enable								
	MV1		Enable								
	SP2		Enable								
	MV2		Enable								
Modbus-BTU	Node add	ess	1								
	Transfer ra	ite	38400		bps						
	Data bit (8	bit)	8		bit						
	Parity	51()	Odd		Dit .						
Modbus/TCP	IP address	2	192 168	0.1							
	Subnet ma	, nek	255 255	255.0							
	Port No. (5	SO2 fixed)	502	200.0							
	Linger time		180		500						
		0	Englich		360						
Language			LIIGIISII		Bango Hi	Pango Lo	Docimal	Engineer			DATA daai
User's parameter table	Setting	Parameter	GROUP	ITEM	limit	limit	place	ing unit	Hi limit	Lo limit	mal place
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	U	2	Unit	10000	U	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2

#### For SC200W, SC210W

SC200W Configuration	LCD Ver. 1.0x		
		-	
Group	Item	Data	
Back light brightness		5	
Screen saver (time)		0	min (0–OFF)
MV 0/100% symbol	MV1 100% symbol	OP	(0=011)
	MV1 0% symbol	CI	
	MV2 100% symbol	OP	
	MV2 0% symbol	CL	
Loop display (MV/OP)	LP1 display (MV)	1	
	LP2 display (MV)	2	
Loop variables		PV/SP/MV 🔶	
Graph scale divisions		10	
Decimals (% display)		1	
Alarm blinking		Enable	
Bargraph color	PV1 Normal	5	
	PV1 Hi limit	1	
	PV1 Lo limit	4	
	PV2 Normal	5	
	PV2 Hi limit	1	
	PV2 Lo limit	4	
	SP1 Normal	8	ļ
	SP2 Normal	8	
	MV1 Normal	13	
	MV1 Hi limit	12	
	MV1 Lo limit	14	
	MV2 Normal	13	
	MV2 Hi limit	12	
Disited allow have a dam	MV2 Lo limit	14	
Digital display color	PV1	16	
	PV2	10	
	SP1	16	
	SP2	10	
	NVO	16	
		16	
		16	
	FN2 FN3	16	
	FN/	16	
Trend recording		Start	
Storing interval		10 sec	
Trend channel	LP1 CH1	PV1	
	LP1 CH2	SP1	
	LP1 CH3	MV1	
	LP1 CH4	None	
	LP2 CH1	PV2	
	LP2 CH2	SP2	
	LP2 CH3	MV2	
	LP2 CH4	None	1
Trend graph color	LP1 CH1	1	1
	LP1 CH2	4	
	LP1 CH3	5	
	LP1 CH4	8	
	LP2 CH1	1	
	LP2 CH2	4	
	LP2 CH3	5	
	LP2 CH4	8	
Selected loop color		7	
Touch tone		Enable	
Home	Registered view	Digital	
	Registered loop number	1	
Select operation view	Digital	Enable	
	Bargraph	Enable	
	Dual-loop bargraph	Enable	
	Short trend	Enable	
	User's parameter	Enable	
Coloct unit mode	Digital	Colostoble	
	Bararanh	Selectable	
	Dalylapii	Jeleciable	1

PRG mode indicator			ON								
Numerical key control	SP1		Enable								
	MV1		Enable								
	SP2		Enable								
	MV2		Enable								
Modbus-BTU	Node add	ess	1								
	Transfer ra	ite	38400		bps						
	Data bit (8	bit)	8		bit						
	Parity	51()	Odd		Dit .						
Modbus/TCP	IP address	2	192 168	0.1							
	Subnet ma	, nek	255 255	255.0							
	Port No. (5	SO2 fixed)	502	200.0							
	Linger time		180		500						
		0	Englich		360						
Language			LIIGIISII		Bango Hi	Pango Lo	Docimal	Engineer			DATA daai
User's parameter table	Setting	Parameter	GROUP	ITEM	limit	limit	place	ing unit	Hi limit	Lo limit	mal place
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	U	2	Unit	10000	U	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2
	Disable	Name	0	0	10000	0	2	Unit	10000	0	2

#### 6.7 CONFIGURATION ITEM LIST

ITEM	SUB ITEM	DATA DEFAULT		CONTENTS		
Back light brightness		1, 2, 3, 4, 5	5	Backlight brightness control		
				Time before the screen turns off when not ac-		
				cessed.		
				Screen saver does not turn on when:		
Screen saver (time)		0, 1 – 99 minutes	0 (OFF)	- PV high or low alarm is tripped.		
				- ALM1, ALM2, ALM3 or ALM4 is indicated.		
				- The device is in an abnormality.		
				- Engineering view is on the screen.		
	MV1 100% symbol	O, C, OP, CL	OP			
MV 0/4000/	MV1 0% symbol	O, C, OP, CL, HI, LO,	CL			
WW-0/100% symbol	MV2 100% symbol	100, 0, MIN, MAX,	OP	MV 1 / MV 2 graph scale 0% and 100% symbols		
	MV2 0% symbol	None	CL			
	LP1 display (MV)	1.0	1	Mv signal assigned to the primary loop view.		
Loop display (MV/OP)	LP2 display (MV)	1, 2	2	Mv signal assigned to the secondary loop view.		
La su su da bla s				Variables assignment (order) for bargraphs		
Loop variables			PV/SP/MV	(SV=SP, OP=MV)		
One of the state of the state		0 10	10	Number of divisions applied to graphs on Bar-		
Graph scale divisions		2 - 10	10	graph view		
Decise als (0( all ender))		4.0		Number of decimal places applied to % indica-		
Decimais (% display)		1, 2	1	tion (PV1, PV2, SP1, SP2, MV1, MV2)		
Alexande Balda a		Disable Frable	E I.I.	Digital displays can be set to blink during PV		
Alarm blinking		Disable, Enable	Enable	and/or MV alarms.		
	PV1 norm		5	PV1 bargraph color, normal range		
	PV1 Hi		1	PV1 bargraph color, high alarm range		
	PV1 Lo	-	4	PV1 bargraph color, low alarm range		
	PV2 norm		5	PV2 bargraph color, normal range		
	PV2 Hi		1	PV2 bargraph color, high alarm range		
	PV2 Lo		4	PV2 bargraph color, low alarm range		
	SP1 norm	18 colors	8	SP1 bargraph color, normal range		
Bargraph color	SP2 norm	(color chart) *1	8	SP2 bargraph color, normal range		
	MV1 norm		13	MV1 bargraph color, normal range		
	MV1 Hi		12	MV1 bargraph color, high alarm range		
	MV1 Lo	-	14	MV1 bargraph color, low alarm range		
	MV2 norm	-	13	MV2 bargraph color, normal range		
	MV2 Hi	-	12	MV2 bargraph color, high alarm range		
	MV2 Lo	-	14	MV2 bargraph color, low alarm range		
	PV1					
	PV2	-				
	SP1	-				
	SP2	-		Digital display color (PV1_PV2_MV1_MV2		
	MV1	18 colors		SP1, SP2, FN1, FN2, FN3, FN4)		
Digital display color	MV2	(color chart) *1	16	(High/Low alarm colors specified for bargraphs		
	FN1	()		are applied.)		
	FN2	-				
	FN3	-				
	FN4	-				
Trend recording		Start Stop	Start	Trend recording operation control		
			Otart	Short trend storing interval *2		
Storing interval		1 sec thr. 60 min	10 sec	$(1 \ 2 \ 5 \ 10 \ 20 \ 30 \ \text{sec} \ 1 \ 2 \ 5 \ 10 \ 30 \ 60 \ \text{min})$		
	LP1 CH1		PV1			
	LP1 CH2	-	SP1	-		
	LP1 CH3	-	MV1	-		
	L P1 CH4	None, PV1, PV2,	None	4		
Trend channel	L P2 CH1	SP1, SP2, MV1, MV2,	PV2	Short trend channel assignment (CH1 thr. CH4)		
	L P2 CH2	FN1, FN2, FN3, FN4	SP2	-		
	L P2 CH3	-	MV2	1		
	L P2 CH4	-	None	1		

ITEM	SUB ITEM	DATA DEFAULT		CONTENTS		
	LP1 CH1		1			
	LP1 CH2		4			
	LP1 CH3		5			
Treast and the sector	LP1 CH4	18 colors	8			
Irend graph color	LP2 CH1	(color chart) *1	1	Short trend graph color (CH1 thr. CH4)		
	LP2 CH2		4			
	LP2 CH3		5			
	LP2 CH4		8			
O a la sta d la sur sa la n		18 colors	-	Background color of the tag field for the se-		
Selected loop color		(color chart)*1	1	lected loop		
Touch tone		Disable, Enable	Enable	Sound at the touch of buttons		
		Digital, Bargraph,				
11	Registered view	Dual-loop bargraph,	Digital	Default (home) view to return when commanded		
Home		Short trend				
	Registered loop number	1, 2	1	Default (home) loop to return when commanded		
	Digital		Enable			
	Bargraph		Enable			
Select operation view	Dual-loop bargraph	Disable, Enable	Enable	Views to be indicated or skipped (digital, bar-		
	Short trend		Enable	graph, dual-loop bargraph, short trend)		
	User's parameter table		Enable			
	Digital	Selectable, Eng unit, %		Scale setting for PV indicators		
Select unit mode	Bargraph	Selectable, Eng unit, %	Selectable	Stare Setting IOLE V INUICATORS		
PRG mode indicator		ON, OFF	ON	ON/OFF the program mode (ITEM 01) of Func- tion Block		
	SP1					
Numerical key control	MV1	Diachla Enchla	Enchlo	Disable/Enable the numerical key control for SP		
Numerical key control	SP2	Disable, Ellable		and MV in digital display view		
	MV2					
Madhua DTU	Node address	1 to 247	1	Node address		
(SC200, SC210,	Baud rate	4800, 9600, 19200, 38400	38400	Transfer rate		
SC200D, SC200W	Data bit (8 bit)	8 (fixed)	8	Data bit (indication only)		
and SC2 low only)	Parity	None, Even, Odd	Odd	Parity bit		
	IP address	0.0.0.0 255.255.255.255	192.168.0.1	IP address		
Modbus/TCP (SC200, SC210,	Subnet mask	0.0.0.0 255.255.255.255	255.255.255.0	Subnet mask		
SC200D, SC200W and SC210W only)	Default gateway *4	0.0.0.0 255.255.255.255	0.0.0.0	Default gateway		
	Port No. (502 fixed)	502	502	Port No. (indication only)		
	Linger time	0 to 3000	180	Linger time		

ITEM	SUB ITEM	DATA	DEFAULT	CONTENTS
Language		Japanese, English	As specified when ordering	Display language
	Setting	Enable, Disable	Disable	Enable / Disable the parameter in the User's Pa-
				rameter Table view.
	Parameter	Max. 10 characters	Name	Parameter identification
	GROUP	0 to 99	0	GROUP No. in the Function Block List
	ITEM	0 to 99	0	ITEM No. in the Function Block List
Devery star astting	Range Hi limit*3	±32000	10000	Engineering unit data's upper range value
Parameter setting	Range Lo limit*3	±32000	0	Engineering unit data's lower range value
(40 parameters)	Decimal place*3	0 to 5	2	Engineering unit data's decimal point position
	DATA Hi limit	±32000	10000	DATA's upper range value
	DATA Lo limit	±32000	0	DATA's lower range value
	DATA decimal point	0 to 5	2	DATA's decimal point position
	position			
	DATA engineering unit	Max. 8 characters	Unit	DATA's engineering unit

#### \*1. Color chart

1	2	3
4	5	6
7	9	9
10	11	12
13	14	15
15	17	18

#### \*2. Storing interval and timing

INTERVAL	TIMING	INTERVAL	TIMING
1 sec.	Every sec.	1 min.	Every min. 0 sec.
2 sec.	Even number of sec.	2 min.	Even number of min. 0 sec.
5 sec.	0, 5, 10, 55 sec.	5 min.	0, 5, 55 min. 0 sec.
10 sec.	0, 10, 20 50 sec.	10 min.	0, 10, 50 min. 0 sec.
20 sec.	0, 20, 40 sec.	30 min.	0, 30 min. 0 sec.
30 sec.	0, 30 sec.	60 min.	Every hour, 0 min. 0 sec.

\*3. LCD firmware version 1.5x or later

\*4. LCD firmware version 2.0x or later for SC200 and SC210.

## 7. SHORT TREND DATA

#### 7.1 UPLOAD AND EXPORT TO CSV

Click on [Upload and export to CSV] to start communicating with the Controller via infrared. Once the communication is established, the folder directory appears on the screen. Enter file name and click on [Save] button to create a CSV file.

Save As								? 🔀
Savejn:	📋 My Document:	\$	~	0	ø	ø	•	
My Recent Documents Desktop	에 My Music 웹 My Pictures							
My Computer	File <u>n</u> ame:	20110325_010203.csv				~		<u>S</u> ave
My Network	Save as <u>t</u> ype:	*.csv				*		Cancel

#### 7.2 SHORT TREND DATA IN CSV FORMAT

	A	В	С	D	E	F	G	G H		J
1	SC210 Short trend data	a								
2										
3	Storing interval	10 sec					Ct	Storing interval. Storing pariod. Num		
4	Storing periold	2011/10/31	11:15:00	-	2011/10/31	12:21:30			ai, Storing p	enou, Num-
5	Number of samples	400					be	ber of samples and Storing status		
6	Storing status	Storing								
7						-	<b></b>			
8	Trend channel	Data type	Tag No.	Unit	Lower range	Upper range	Decimal point			
9	LP1 CH1	PV1		m3/sec	0	10000	2	Tren	d channel.	Data type. Tag
10	LP1 CH2	SP1		m3/sec	0	10000	2		Linit Lowo	
11	LP1 CH3	MV1		%	0	10000	1	INO.,	Unit, Lower	opper range,
12	LP1 CH4	FN1	No.1	%	-10000	0	3	Dec	imal point	
13	LP2 CH1	PV2		m3/sec	0	10000	2			
14	LP2 CH2	SP2		m3/sec	0	10000	2			
15	LP2 CH3	MV2		%	0	10000	1			
16	LP2 CH4	FN2	No.2	%	-20000	0	3			
17										
18	Date	Time	LP1 CH1	LP1 CH2	LP1 CH3	LP1 CH4	LP2 CH1	LP2 CH2	LP2 CH3	LP2 CH4
19			PV1	CD1	M1/4		PV2	SP2	MV2	FN2
20			Tag No.	is indicated	when Data	type is				No.2
21			m oot with	ENIX			m3/sec	m3/sec	%	%
22	2011/10/31	11:15:00	Set with	FINX.		0	50.00	50.00	100.0	-1.000
23	2011/10/31	11:15:10	50.00	50.00	405.0	-0.480	70.00	70.00	105.0	-0.800
24	2011/10/31	11:15:20	70.00	70.00	410.0	-0.460	90.00	90.00	110.0	-0.600
25	2011/10/31	11:15:30	90.00	90.00	415.0	-0.440	110.00	110.00	115.0	-0.400
26	2011/10/31	11:15:40	110.00	110.00	420.0	-0.420	130.00	130.00	120.0	-0.200
27	2011/10/31	11:15:50	130.00	130.00	425.0	-0.400	150.00	150.00	125.0	0.000
28	2011/10/31	11:16:00	150.00	150.00	430.0	-0.380	170.00	170.00	130.0	0.200
29	2011/10/31	11:16:10	170.00	170.00	125.0	0.260	100.00	100,00	135.0	0.400
30	2011/10/31	11:16:20	190.00	190.00	Sampled	data		0	140.0	0.600
31	2011/10/31	11:16:30	210.00	210.00	Values in	onginoorin	a unit with a		145.0	0.800
32	2011/10/31	11:16:40	230.00	230.00	values III	engineerin		0	150.0	1.000
33	2011/10/31	11:16:50	250.00	250.00	point at t	he preset po	osition.	0	155.0	1.200
34	2011/10/31	11:17:00	270.00	270.00					160.0	1.400
35	2011/10/31	11:17:10	290.00	290.00	465.0	-0.240	310.00	310.00	165.0	1.600
36	2011/10/31	11:17:20	310.00	310.00	470.0	-0.220	330.00	330.00	170.0	1.800
37	2011/10/31	11:17:30	330.00	330.00	475.0	-0.200	350.00	350.00	175.0	2.000
38	2011/10/31	11:17:40	350.00	350.00	480.0	-0.180	370.00	370.00	180.0	2.200
39	2011/10/31	11:17:50	370.00	370.00	485.0	-0.160	390.00	390.00	185.0	2.400
40	2011/10/31	11:18:00	390.00	390.00	490.0	-0.140	410.00	410.00	190.0	2.600
			1							

• If a signal type assigned to a trend channel does not exist, the Controller does not plot data on the graph. However, such channel is included in CSV file. All data show the lower range value.

• Trend channels which are not assigned for the Controller's short trend view can be defined. Such channels are not shown on the trend graph of the Controller, but data is exported by the SCCFG. At the maximum of 8 channels are available.

#### [Example]

PID function block for the primary loop is defined, that for the secondary loop is not used. The secondary loop short trend is not shown on the screen but data can be stored.

TREND CHANNEL	NNEL SIGNAL TYPE DATA STORAGE		GRAPH PLOTTING
LP1 CH1	PV1	Yes	
LP1 CH2	SP2	Yes	Vee
LP1 CH3	MV1	Yes	165
LP1 CH4	None		
LP2 CH1	FN1	Yes	
LP2 CH2	LP2 CH2 FN2		No
LP2 CH3	FN3	Yes	
LP2 CH4	FN4	Yes	

## Appx 1. ERROR CODES

ITEM	ERROR TYPE	CODE	DE MESSAGE			
		01	Setting data is not supported by the present version of SCCFG.			
	Illegal data		Confirm the SCCFG version.			
		02	Setting data is not in the defined format.			
Configuration data	Device error	01	The SCCFG failed in writing setting data to the device.			
		02	Setting data is not in the defined format.			
		03	Setting data is not supported by the device.			
		04	Setting data value is out of defined range.			
	Illegal data		The SCCFG failed in reading illegal trend data.			
Short trend data	Lineupported device		The SCCFG tried to read trend data from unsupported device (other			
	Unsupported device		than SC200, SC210, SC200D, SC200W or SC210W).			