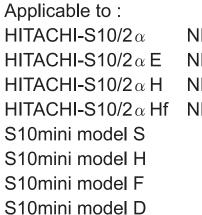


2a S10mini

SERIES

SOFTWARE MANUAL OPTION 4 CHANNEL ANALOG PULSE COUNTER For Windows®



NESP-S25E NESP-2 α E NESP-2 α H NESP-2 α Hf

HITACHI

SAE-3-142(E)

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- Read this manual thoroughly and follow all the safety precautions and instructions given in this manual before operations such as system configuration and program creation.
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- If you have any question concerning any part of this manual, contact your nearest Hitachi branch office or service engineer.
- Hitachi will not be responsible for any accident or failure resulting from your operation in any manner not described in this manual.
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- Make it a rule to back up every file. Any trouble on the file unit, power failure during file access or incorrect operation may destroy some of the files you have stored. To prevent data destruction and loss, make file backup a routine task.
- Furnish protective circuits externally and make a system design in a way that ensures safety in system operations and provides adequate safeguards to prevent personal injury and death and serious property damage even if the product should become faulty or malfunction or if an employed program is defective.
- If an emergency stop circuit, interlock circuit, or similar circuit is to be formulated, it must be positioned external to the programmable controller. If you do not observe this precaution, equipment damage or accident may occur when the programmable controller becomes defective.
- Before changing the program, generating a forced output, or performing the RUN, STOP, or like procedure during an operation, thoroughly verify the safety because the use of an incorrect procedure may cause equipment damage or other accident.

"RUN/STOP" SWITCH CAUTION

The "RUN/STOP" switch only stops execution of the ladder logic program or HI-FLOW program. Digital and analog outputs are left in the active state when execution stops, unless the optional rungs described in the CPU manual have been added. The "RUN/STOP" switch does not affect the operation of C-language or FA-BASIC language programs. Outputs can still be produced in response to C-language or FA-BASIC programs, or by the action of programmers typing in commands in these languages, while the "RUN/STOP" switch is in the "STOP" position.

DO NOT DEPEND ON THE STOP SWITCH TO STOP MOVING PARTS OR TO PREVENT UNEXPECTED MOTION OR ENERGIZATION. USE HARDWIRED SAFETY DISCONNECT AND LOCK OUT POWER AND CONTROL VOLTAGES BEFORE WORKING ON ELECTRICAL CIRCUITS OR PARTS THAT CAN MOVE.

PREFACE

We greatly appreciate your purchase of this 4 channel analog pulse counter system.

This system operates on a personal computer, and performs various setup operations for the 4 channel analog pulse counter module.

This manual describes the operation of the 4 channel analog pulse counter system. This manual is applicable to the following system versions.

 System name/version

 4ch ANALOG PULSE COUNTER SYS For Windows®
 07-01

System versions 05-00 and earlier do not support the Microsoft® Windows® 98 operating system. They support the Microsoft® Windows® 95 operating system only.

For the 4 channel analog pulse counter module, refer to the following manual, which is supplied along with the module.

<Related manual>

HARDWARE MANUAL I/O 4 CHANNEL ANALOG PULSE COUNTER (Manual number SAE-2-201)

See the following list when you use the NESP (Nissan Electronic Sequence Processor) series.				
[HITACHI-S10α series]	[HITACHI-S10α series] [NESP series]			
HITACHI-S10/2a		NESP-S25E		
HITACHI-S10/2aE		NESP- $2\alpha E$		
HITACHI-S10/2aH		$NESP-2\alpha H$		
HITACHI-S10/2αHf		NESP-2aHf		

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Systems Supported by Windows® 2000 and Windows® XP

The systems supported by Microsoft® Windows® 2000 operating system (hereafter abbreviated as Windows® 2000) and Microsoft® Windows® XP operating system (hereafter abbreviated as Windows® XP) are shown in the following table.

Systems of earlier versions than those shown in the following table are not supported by Windows® 2000 and Windows® XP but supported by only Microsoft® Windows® 95 operating system (hereafter abbreviated as Windows® 95) and Microsoft® Windows® 98 operating system (hereafter abbreviated as Windows® 98). (The system names in the following table are hereafter abbreviated as each system.)

No.	System name	Туре	Version	Windows® 2000	Windows® XP
1	S10Tools SYSTEM	S-7890-01	07-05	\checkmark	\checkmark
2	LADDER CHART SYSTEM	S-7890-02	07-05	\checkmark	\checkmark
3	HI-FLOW SYSTEM	S-7890-03	07-02	\checkmark	\checkmark
4	CPMS LOADING SYSTEM	S-7890-04	07-04	\checkmark	\checkmark
5	CPMSE LOADING SYSTEM	S-7890-05	07-04	\checkmark	\checkmark
6	CPMS DEBUGGER SYSTEM	S-7890-06	07-02	\checkmark	
7	CPMSE DEBUGGER SYSTEM	S-7890-07	07-02	\checkmark	
8	GP-IB LOADING SYSTEM	S-7890-08	07-01	\checkmark	\checkmark
9	BACKUP RESTORE SYSTEM	S-7890-09	08-01	\checkmark	\checkmark
10	RPDP/S10 SYSTEM	S-7891-10	03-03	√ (*2)	ns (*1)
11	NX/Tools-S10 SYSTEM	S-7890-13	07-02	\checkmark	
12	4α LADDER CHART SYSTEM	S-7890-17	07-05	\checkmark	
13	4αH LADDER CHART SYSTEM	S-7890-18	07-05	\checkmark	
14	LADDER COMMENT CONVERTER SYS	S-7890-19	06-01	\checkmark	
15	HIGH SPEED REMOTE I/O SYSTEM	S-7890-21	07-01	\checkmark	
16	CPU LINK SYSTEM	S-7890-22	07-01	\checkmark	
17	4ch ANALOG PULSE COUNTER SYS	S-7890-23	07-01	\checkmark	
18	EXTERNAL SERIAL LINK SYSTEM	S-7890-24	07-02	\checkmark	
19	S10ET LINK SYSTEM	S-7890-25	07-02	\checkmark	
20	J.NET SYSTEM	S-7890-27	07-02	\checkmark	
21	OD.RING/SD.LINK SYSTEM	S-7890-28	07-03	\checkmark	
22	ET.NET SYSTEM	S-7890-29	07-01	\checkmark	
23	FL.NET SYSTEM	S-7890-30	07-03	\checkmark	
24	D.NET SYSTEM	S-7890-31	07-04	\checkmark	
25	LADDER CHART MONITOR SYSTEM	S-7890-34	07-04		
26	HI-FLOW MONITOR SYSTEM	S-7890-35	07-01	\checkmark	
27	IR.LINK SYSTEM	S-7890-36	07-02	\checkmark	
28	Crossing C compiler	MCP68K	5.3	√ (*2)	ns (*1)
	(manufactured by Mentor graphics company)				

<Table of Systems Supported by Windows® 2000 and Windows® XP>

 $\sqrt{1}$: Supported ns: Not supported

(*1) Crossing C compiler (No.28) is not supported by Windows® XP. Use it on Windows® 2000.

^(*2) Crossing C compiler (No.28) must be a version supported by Windows® 2000 (later than version 5.3) as a premise.

<Definitions of Terms>

- N coil: A ladder program converted into a form that can be run on the PCs by pasting a symbol on the sheet displayed on a PC.
- Process: A HI-FLOW program converted into a form that can be run on the PCs by pasting a symbol on the sheet displayed on a PC.
- Compile: To convert an application program such as a ladder chart and HI-FLOW into a form (N coil, process, etc.) that can be run on the PCs.
- Build: To compile only a corrected application program.
- Rebuild: To compile every existing application program.
- Sheet: Paper to prepare an application program of ladder chart and HI-FLOW, etc. This paper is controlled on a PC.
- PCs: An abbreviation of <u>Programmable Controllers</u>. This is a general term for PLC such as the S10 α and S10mini series.
- PLC: An abbreviation of <u>Programmable Logic Controller</u>. This is an industrial electronic device to exert sequence control, having an incorporated program.

The S10 α and S10mini series come under this PLC.

<Note for storage capacity calculations>

- Memory capacities and requirements, file sizes and storage requirements, etc. must be calculated according to the formula 2ⁿ. The following examples show the results of such calculations by 2ⁿ (to the right of the equals signs).
 - 1 KB (kilobyte) = 1024 bytes
 - 1 MB (megabyte) = 1,048,576 bytes
 - 1 GB (gigabyte) = 1,073,741,824 bytes
- As for disk capacities, they must be calculated using the formula 10ⁿ. Listed below are the results of calculating the above example capacities using 10ⁿ in place of 2ⁿ.
 - 1 KB (kilobyte) = 1000 bytes
 - 1 MB (megabyte) = 1000^2 bytes
 - $1 \text{ GB} (\text{gigabyte}) = 1000^3 \text{ bytes}$

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1 BEFORE USE

1 BEFORE USE

This manual is intended for users who use Windows® personal computer programming.

1.1 System Overview

The 4 channel analog pulse counter system for Windows® (hereinafter simply called the analog pulse system) transfers the system program of the HITACHI-S10 α series and S10mini series 4 channel analog pulse counter module and performs address registration, through operations as done on general Windows® applications (address registration only on the S10mini series).

1.2 Hardware and Software Requirements

Using each system requires the following hardware and software.

OS	Windows® 95 (*1) Windows® 98 (*1)	Windows® 2000 (*1)	Windows® XP (*1) (*2)
CPU	Pentium 133 MHz or more	Pentium 300 N	MHz or more
Memory (RAM)	32 MB or more 64 MB or more 128 MB or more		
Free hard disk capacity (*3)	20 MB or more/system (However, 10 MB or more/system for OS loading and option module support software)		
Floppy disk drive	1 unit or more (required to install software by FD)		
CD-ROM drive	1 unit or more (required to install software by CD-ROM)		
Ethernet (10BASE-T)	1 port or more (required to connect a PC with the ET.NET module)		
Serial (D-sub 9-pin)	1 port or more (required to connect the PCs with a PC by RS-232C or set an IP address for the ET.NET module)		
PC card (conforming to the PC Card Standard (JEITA V4.2) TYPE II or TYPE III)	 1 slot or more (required to connect a PC with the parallel interface module (LWZ400). At this time, the following GP-IB card is also required.) GP-IB card: PCMCIA-GPIB (Model: 777438-02) (manufactured by National Instruments Corporation) 		
Display	Resolution of 800×600 pixels or more		
Microsoft® Internet Explorer	Version 4.01 or later		

<Personal Computers (hereafter abbreviated as PC)>

(*1) For the OS service pack, refer to the attached reference materials for software.

(*2) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in "PREFACE" are excepted.

(*3) This is a capacity required to install each system. A free capacity to save user programs is also required.

<Hardware other than PC>

- CPU for HITACHI-S10α series (2α, 2αE, 2αH, 2αHf) or S10mini series
- Power supply for HITACHI-S10α series or S10mini series
- Backboard for HITACHI-S10 α series or S10mini series
- Connection cable between the personal computer and PCs
- Remote I/O stations, other power supplies and backboards, cards, and wiring as required

NOTICE

Users of this product require knowledge of the Windows® environment and user interface. The 4 channel analog pulse counter system conforms to the Windows® standard. This manual is intended for users who have mastered the basic usage of Windows®.

NOTE FOR PERSONAL COMPUTER SETTING

When you use a personal computer with the suspend function, disable the function. The personal computer may malfunction if the suspend function remains enabled during execution of the 4 channel analog pulse counter system.

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2 INSTALLATION

2.1 Installing the System (*)

First, check if your CD is correct.

To install each system, double-click the Setup.exe file saved in the DISK1 folder of the system CD. After installing it, an installed program window is not displayed.

To install each system, install Microsoft® Internet Explorer 4.01 or later. If it is not installed, install each system after installing it.

NOTE

- To operate each system, install Microsoft® Internet Explorer 4.01 or later. If it is not installed, each system does not operate normally.
- Before installing each system, be sure to terminate such a program residing in the memory as virus monitoring software. If each system is installed without terminating the program, an error may occur. In this case, uninstall the system by referring to "2.2 Uninstalling the System" and terminate all Windows® programs. Then, install each system once again.
- To install and uninstall each system by using Windows® 2000, set "Administrator" or "Member of Administrators" as the user account to be logged on.
- To install and uninstall each system by using Windows® XP, set "Computer administrator" as the user account to be logged on. If "Account with limitations" is set, each system does not operate normally.
- (*) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in "PREFACE" are excepted.

2.2 Uninstalling the System (*)

To uninstall each system for version-up, observe the following procedure.

(1) Uninstalling from Windows® 95 or Windows® 98

Open [Settings] in the [Start] menu – [Control Panel]. Double-click [Add/Remove Programs], select "Each System" by the [Install/Uninstall] tab, and click the Change/Remove button. When the [Confirm File Deletion] window is displayed, click the Yes button.

(2) Uninstalling from Windows® 2000

Open [Settings] in the [Start] menu – [Control Panel]. Double-click [Add/Remove Programs], click [Change or Remove Programs], select "Each System," and click the Change/Remove button. When the [Confirm File Deletion] window is displayed, click the Yes button.

(3) Uninstalling from Windows® XP

Open ([Settings] –) [Control Panel] in the [Start] menu. Double-click [Add or Remove Programs], click [Change or Remove Programs], select "Each System," and click the Change/Remove button. When the [Confirm File Deletion] window is displayed, click the Yes button.

When a shortcut of each system executable file has been created on the desktop, etc. delete this shortcut.

NOTE

- When the [Remove Shared File?] window is displayed while each system is uninstalled on Windows®, click No not to delete the shared file.
- To install and uninstall each system by using Windows® 2000, set "Administrator" or "Member of Administrators" as the user account to be logged on.
- To install and uninstall each system by using Windows® XP, set "Computer administrator" as the user account to be logged on.
- If the [Add/Remove Programs] window is locked (inoperable) when each system is uninstalled by using Windows® 2000, log off from [Shut Down] in the [Start] menu of Windows®, and then log on again on the [Log On to Windows] window.

^(*) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in "PREFACE" are excepted.

2 INSTALLATION

2.3 Starting Up the System (*)

 The system to be installed by each system is automatically registered in the [Start] menu of Windows®. From this [Start] menu, select [Programs (All Programs)] – [Hitachi S10] – "Each System" to start the system.

If the logged-on user name in installing each system is different from the user name in starting each system, each system is not displayed in the [Start] menu. In this case, create a shortcut of the executable file (extension .exe) for each system shown below and then double-click this shortcut to start each system.

No.	System name	Туре	Executable file storage directory (*1)	Executable file name
1	S10Tools SYSTEM	S-7890-01	C:\Hitachi\S10	S10Ladder.exe
				S10Tool.exe
2	LADDER CHART SYSTEM	S-7890-02	C:\Hitachi\S10\2ALDC	S10Ladder.exe
3	HI-FLOW SYSTEM	S-7890-03	C:\Hitachi\S10\HF	S10Tool.exe
4	CPMS LOADING SYSTEM	S-7890-04	C:\Hitachi\S10\CPMS	Cpms.exe
5	CPMSE LOADING SYSTEM	S-7890-05	C:\Hitachi\S10\CPMSE	Cpmse.exe
6	CPMS DEBUGGER SYSTEM	S-7890-06	C:\Hitachi\S10\DEBUG	Debugger.exe
7	CPMSE DEBUGGER SYSTEM	S-7890-07	C:\Hitachi\S10\DEBUGE	DebuggerE.exe
8	GP-IB LOADING SYSTEM	S-7890-08	C:\Hitachi\S10\GPIB	Gpib.exe
9	BACKUP RESTORE SYSTEM	S-7890-09	C:\Hitachi\S10\BACKUP	SysAllSaveLoad.exe
10	NX/Tools-S10 SYSTEM	S-7890-13	C:\Hitachi\S10\NX	NXTool.exe
11	4α LADDER CHART SYSTEM	S-7890-17	C:\Hitachi\S10\4ALDC	S10Ladder_4A.exe
12	4αH LADDER CHART SYSTEM	S-7890-18	C:\Hitachi\S10\4AHLDC	S10Ladder_4AH.exe
13	LADDER COMMENT CONVERTER SYS	S-7890-19	C:\Hitachi\S10\CFCONV	Cfconv.exe
14	HIGH SPEED REMOTE I/O SYSTEM	S-7890-21	C:\Hitachi\S10\HISRIO	HiSpeedRIO.exe
15	CPU LINK SYSTEM	S-7890-22	C:\Hitachi\S10\CPULINK	CpuLink.exe
16	4ch ANALOG PULSE COUNTER SYS	S-7890-23	C:\Hitachi\S10\ANALOG	AnalogPuls.exe
17	EXTERNAL SERIAL LINK SYSTEM	S-7890-24	C:\Hitachi\S10\EXLINK	ExLink.exe
18	S10ET LINK SYSTEM	S-7890-25	C:\Hitachi\S10\ETLINK	EtherNet.exe
19	J.NET SYSTEM	S-7890-27	C:\Hitachi\S10\JNET	JNet.exe
20	OD.RING/SD.LINK SYSTEM	S-7890-28	C:\Hitachi\S10\ODRING-SDLINK	ODRing.exe
21	ET.NET SYSTEM	S-7890-29	C:\Hitachi\S10\ETNET	Et_Net.exe
22	FL.NET SYSTEM	S-7890-30	C:\Hitachi\S10\FLNET	FLnet.exe
23	D.NET SYSTEM	S-7890-31	C:\Hitachi\S10\DNET	DNet.exe
24	LADDER CHART MONITOR SYSTEM	S-7890-34	C:\Hitachi\S10\2ALDCM	S10LadderM.exe
25	HI-FLOW MONITOR SYSTEM	S-7890-35	C:\Hitachi\S10\HFM	S10ToolM.exe
26	IR.LINK SYSTEM	S-7890-36	C:\Hitachi\S10\IRLINK	IrLink.exe

<Executable File Storage Directory Table>

(*1) Directory name when "C" is the drive name of installing destination.

(*) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in "PREFACE" are excepted.

(2) The [4ch ANALOG PULSE COUNTER SYSTEM] window is displayed. In this state, the analog pulse system has been started up. Then, click the button of the desired command.

Heh ANALOG PULSE COUNTE	R SYSTEM 🛛 🕅
Address registration(A)	Close
Transmit system program(5)	Change connection(P)
	Help(H)

Figure 2-1 [4ch ANALOG PULSE COUNTER SYSTEM] Window

2.4 Terminating the System

Click the x or Close button on the [4ch ANALOG PULSE COUNTER SYSTEM] window (Figure 2-1).

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3 COMMANDS

3 COMMANDS

3.1 Command System

The analog pulse command system is shown below.

Each of these commands is described in Section 3.2 and later. For details on each command, refer to Help.

Commands — Address registration — Transmit system program (Do not execute the command on the S10mini series.) — Change connection of PCs

3.2 Address Registration

Function: Sets the registration number of the desired I/O module, module format, and I/O address.

Operation: See the operation procedure below.

- (1) Click the Address registration button on the [4ch ANALOG PULSE COUNTER SYSTEM] window.
- (2) The [Analog counter] window is displayed. Click the "No." to be set, and click the Setup button.

No. Module	Type	address	EW	Close
1			400-430	
2 3			480-4B0	Betup(3)
3			500-530	
4			580-5 8 0	Disiste(D)
5			600-630	
5			680-6B0	
7			700-730	
3			780-7B0	
3			800-830	
10			880-880	
11			900-930	
12			980-9B0	
13			A00-A30	
14			AB0-AB0	
16			B00-B30	
16			880-880	
17			C00-C30	
18			CB0-CB0	
19			D00-D30	
20			D80-D80	
21			E00-E30	
22			E80-EB0	
23			F00-F30	
24			F80-FB0	

(3) The [Setup] window is displayed. Enter a "Module name" and "Address."

Setup			×
Module name(<u>M</u>):	LQA000, LQA100, PAF300(A)	*	0K
Address(<u>A</u>):	02		Cancel

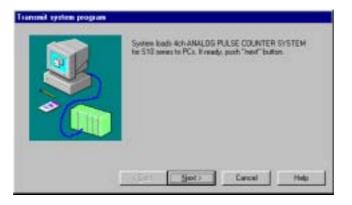
(4) After the setting ends, click the OK button. When no setting is to be made, click the Cancel button.

3.3 Transmit System Program

Do not perform this procedure on the S10mini series, because the system program is stored in ROM.

Function: Transfers the system program of the analog pulse system to the existing PCs. Operation: See the operation procedure below.

- (1) Click the Transmit system program button on the [4ch ANALOG PULSE COUNTER SYSTEM] window.
- (2) The [Transmit system program] window is displayed.



(3) Click the Next button, and the system program is transferred. When it is not to be transferred, click the Cancel button.

NOTE

If a system program transfer should be made on the S10mini series, be sure to reset the CPU module.

3 COMMANDS

3.4 Change Connection of PCs

Function: Sets the communication type for the PCs and personal computer. Operation: See the operation procedure below.

- (1) Click the Change connection button on the [4ch ANALOG PULSE COUNTER SYSTEM] window.
- (2) The [Communication type] window is displayed.

Communication	type	×
© <u>R</u> S-232C	COM1	OK Cancel
C <u>E</u> thernet	P address 192 . 192 . 192 . 1	

(3) When the communication type is RS-232C, click the "RS-232C" radio button and select a "Communication port."

Communication ty	уре	×
© RS-232C	COM1	OK Cancel
C Ethernet	P address- 192 . 192 . 192 . 1	
C <u>G</u> PIB		

(4) When the communication type is Ethernet, click the "Ethernet" radio button and enter the "IP address" of the connected station.

Communication	type	X
© <u>R</u> S-232C	COM1	OK Cancel
• Ethernet	IP address 192 . 192 . 192 . 1	
o <u>g</u> pib		

(5) When the communication type is GP-IB, click the "GPIB" radio button.

Communication t	уре	X
C <u>R</u> S-232C	COM1	OK Cancel
C <u>E</u> thernet	P address 192 . 192 . 192 . 1	

NOTE
When connecting a personal computer to the S10mini series, select RS-232C or Ethernet because the S10mini series does not support GP-IB.

(6) After the setting ends, click the OK button. When no setting is to be made, click the Cancel button.