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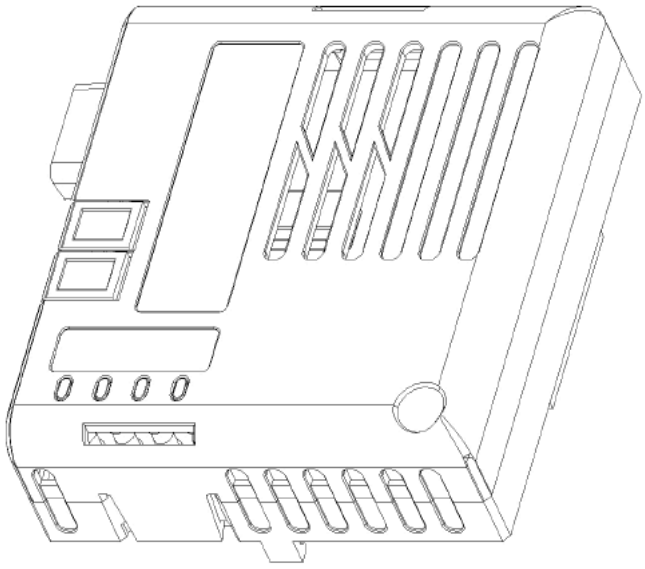
Profibus Option Board

SV-iS7 Series

User Manual



Safety Precautions

- Please read all safety precautions before using this product.
- After reading this manual, please store it in a location where it can be easily found.

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INSTRUCTIONS TO USERS

Thank you for your selecting our Profibus-DP option.

This instruction includes how to use the product and the instruction during handling.

Your wrong handling of this product may cause damage and then it reduces the duration of the product.

Therefore, please read this instruction carefully and then observes the instruction without fail.

Safety Precautions

Safety Precautions are for using the product safe and correct in order to prevent the accidents and danger, so please go by them.

The precautions explained here only apply to the iS7 Profibus Option. For safety precautions on the Inverter system, refer to the iS7 User's manual.

The precautions are divided into 2 sections, 'Warning' and 'Caution'. Each of the meanings is represented as follows.

Precaution		Definition
	**Warning**	**If violated instructions, it can cause death, fatal injury or considerable loss of property.**
	**Caution**	**If violated instructions, it can cause a slight injury or slight loss of products**

The symbols indicated in products and datasheet mean as follows

Symbol	Definition
	**This symbol means pay attention because of danger of injury, fire or malfunction.**
	**This symbol means paying attention because of danger of electric shock.**

Store this datasheet in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

Warning

- **Do not contact the terminals while the power is applied.**
  It can cause electric shock and malfunction.
- **Protect the product from being gone into by foreign metallic matter.**
  It can cause fire, electric shock and malfunction.

⚠ Caution

- **Be sure to check the rated voltage and terminal arrangement for the module and observe them correctly.**

  It can cause fire, electric shock and malfunction.
- **Tighten up the terminal screw firmly to defined torque when wiring.**

  If the terminal screw looses, it can cause fire and electric shock.
- **Do not install around inflammable substances.**

  It can cause fire.
- **Use in an environment that meets the general specifications contained in this datasheet.**

  It can cause electrical shock, fire, erroneous operation and deterioration.
- **Be sure that external load does not exceed the rating of output module.**

  It can cause fire and erroneous operation.
- **Do not use in the environment of direct vibration.**

  It can cause electrical shock, fire and erroneous operation.
- **Do not disassemble, repair or modify except A/S specialist.**

  It can cause electrical shock, fire and erroneous operation.
- **When disposing, treat it as industrial waste.**

  It can cause poisonous pollution or explosion.

Precautions for use

- This option card is for SV-iS7 only. Don’t install it to any other device than SV-iS7.
- When using the product, use the inverter with grounded. For the method of GND, please refer to the instruction manual of inverter body.
- Be sure to connect inverter and option card exactly. For the method of connection,

  Please refer to “6. How to install option” in iS7 User’s Manual.
- Do not separating or remodeling the PCB of Option card.
- Turn off when install or uninstall the option.
- Use Mobile or Radio telegraph at 30cm away from the product.
- Input/output signal or communication wire should be 100mm away from high voltage cable or power line.

Table of Contents

1. Summary

1.1 Introduction

You can connect SV-iS7 inverter to Profibus network using Profibus option.

With Profibus option board built in, inverter control and monitoring by PLC sequence program or optional master module is available.

As a number of inverters in connection operate through one communication line only, It reduces the installation cost compared with communication being unused.

Furthermore, its simple wiring enables the reduction of installation time and easy maintenance and repair.

1.2 Construction of Product

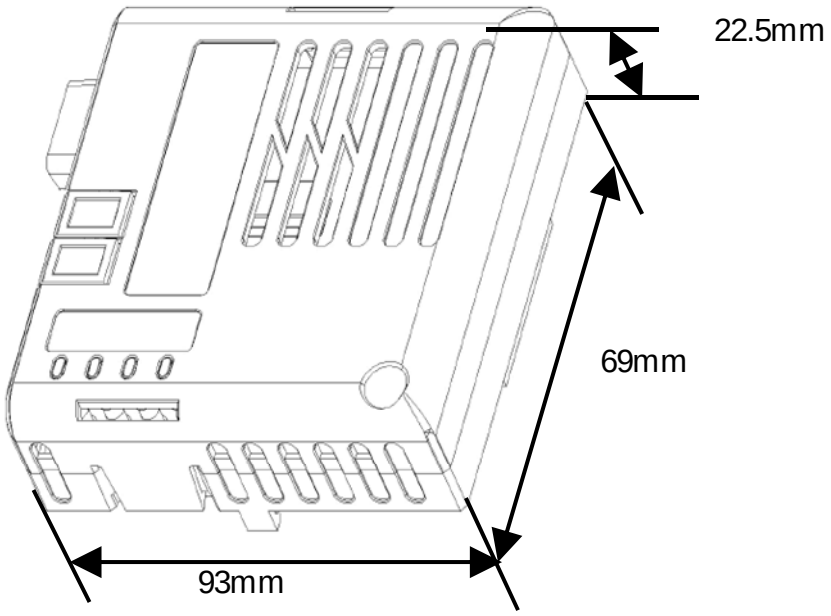
Profibus option, (1) 9-Pin Connector, Fixing Screw (M3), Manual

2. Product Specification

2.1 Basic Communication Specification of Profibus Option

- Device Type : Profibus DP Slave
- Auto Baud Rate Detect : Support
- Sync Mode : Support
- Freeze Mode : Support
- Max Input Length : 8 words
- Max Output Length : 8 words
- Max Data Length : 16 words
- Baud Rate Support : 9.6K, 19.2K, 93.75K, 187.5K, 500K, 1.5M, 3M, 6M, 12M
- Modular Station : Support
- Max Module : 2

2.2 Dimension



3. Appearance and Name of Each Part

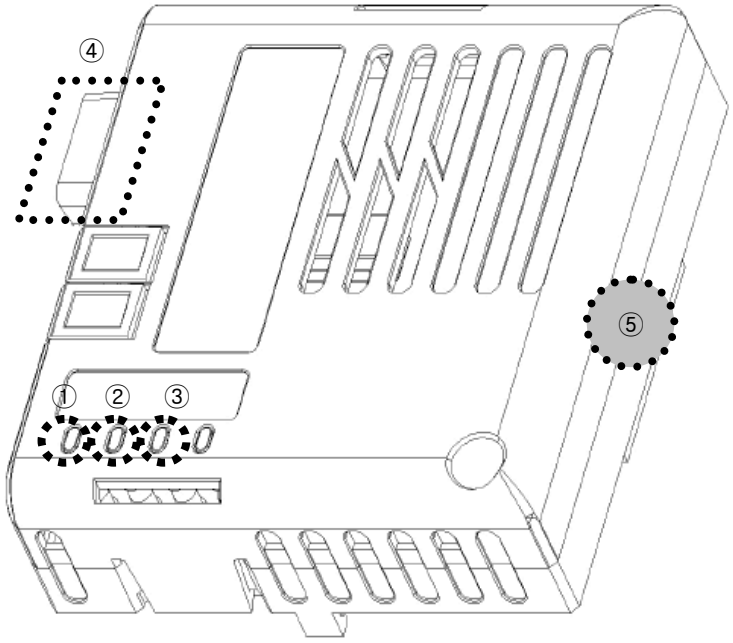


Figure 1. Exterior Appearance

■ LED Display

No.	Name	Application
①	DATA_EX LED	Always “On” when Profibus is Online status.
②	ERROR LED	“On” when error occurs in the option
③	CPU LED	“On” when the option board is built in the inverter and power is supplied to the inverter
④	Communication connecting Terminal	Terminal that connects it with Profibus communication
⑤	Inverter connecting Connector	Terminal that connects it with inverter body

※ For further operation, please refer to ‘7. Troubleshooting’.

■ Communication Line Connecting Terminal

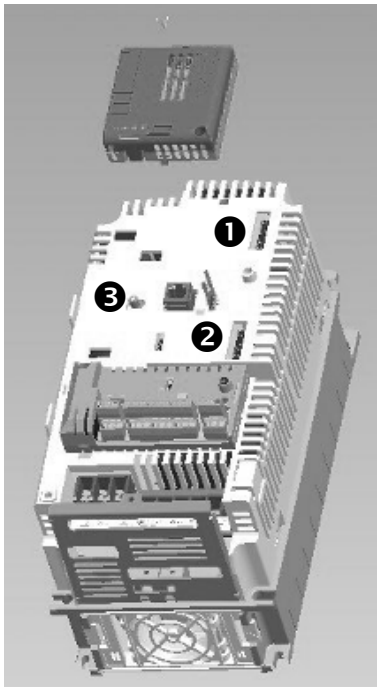
Pin No.	Signal	Description
1	Shield	Protective Ground Line
2	M24	24V Output GND
3	RxD/TxD-P	Send/Receive Data Plus
4	CTRL-P	Control Signal for Repeater
5	DGND	Signal GND
6	VP	5V for Terminating Resistance
7	P24	24V Output Plus
8	RxD/TxD-N	Send/Receive Data Negative
9	CTRL-N	Control Signal for Repeater

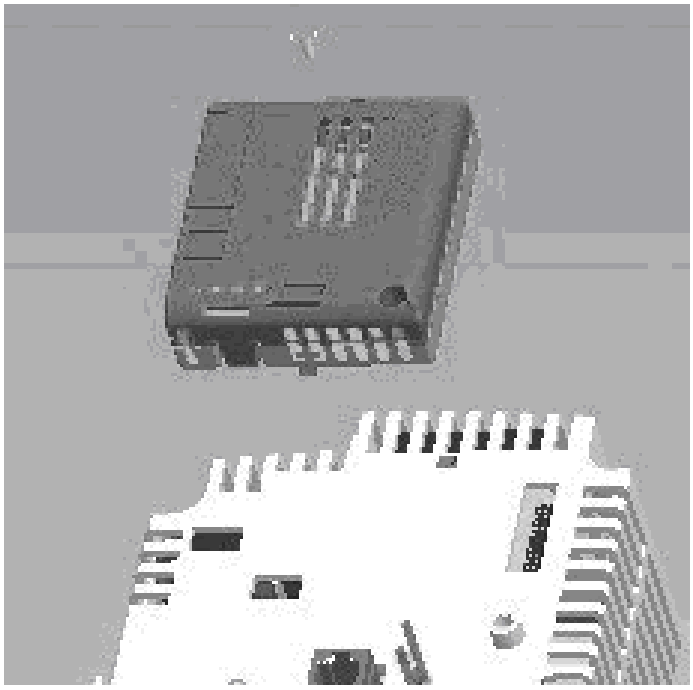
NOTE
This product supports the signal Nos. 3,5,6,8 only.

4. Option Installation Method

4.1 How to install option to inverter

1. Power off.
2. Connect connector after isolating front cover from iS7 as shown in Figure below.
3. Fix by enclosed volt.
4. Power On and Check “Profibus” at parameter, “CNF 31: Option-1 Type”.





⚠CAUTION

Cut off the power when remove the option, it may cause electric shock or break down.

NOTE

1. iS7 has 3 option connectors, they are located in front upper, lower and left side: Option ❶ ❷ ❸ at the Figure.
2. Profibus must be connected with Option

5. Profibus Parameter

5.1 Station Address Setting

	Minimum Value	Max. Value	Position on Keypad
Field Bus ID	0	125	No. 7 of COM Group

※ Station address is a peculiar value distinguishing each node in the Profibus Network, and therefore each different device cannot jointly possess the same value. Station address can be changed through Keypad manipulation. Default value set from the factory is 1.

5.2 Number of Status Data Setting

Determines the number of output data (Variable to be monitored out of the inverter variables)

	Minimum Value	Max. Value	Position on Keypad
Para Status Num	0	8	No. 30 of COM Group

5.3 Number of Control Data Setting

Determines the number of input data (Variable to be commanded from outside among the inverter variables)

	Minimum Value	Max. Value	Position on Keypad
Para Ctrl Num	0	8	No. 50 of COM Group

5.4 Address of Output Data Setting

Determines the address setting in the number of data to be output.

	Minimum Value	Max. Value	Position on Keypad
Para Status 1~8	0h0000	0hFFFF	Nos. 31~38 of COM Group

5.5 Address of Input Data Setting

Determines the address setting in the number of data to be input.

	Minimum Value	Max. Value	Position on Keypad
Para Ctrl 1~8	0h0000	0hFFFF	Nos. 51~58 of COM Group

5.6 I/O Data Send/Receive

Output data set in the keypad of the inverter is transmitted to Profibus Master Module (Control Program of PLC or PC) through Profibus Option Module. On the contrary, the control data is transmitted from Profibus Master Module (Control Program of PLC or PC) to Profibus Option Module, which is sent from Profibus Option Module to the inverter.

6. Basic Feature

When turning on the inverter power or when reset occurs;

- CPU LED flashes if power supply is in normal state.
- ERR LED is On if power supply is in abnormal state.
- Conduct configuration using the keypad.
- If the communication with the Master Station as configured, Profibus communication status DATA_EX LED is Off.

7. Unusual Operation and Measures

The status of device and network is displayed through three (3) LED (DATA_EX, ERR, CPU) lights located at the lower part of the Product. The current status can be checked through the display of LED.

7.1 DATA_EX LED Operation and Measures against Error

LED	Status	Cause	Help
Off	Off-Line	When Master fails to start communication	Master starts communication.
		Wrong wiring of Connector	Check for the wiring of pin number and terminating resistance of the connector.
		No master inside the current network	No master allotted or problem of master station.
		Station Address Error	Check if the station address allotted to the Profibus-use option module of LS inverter is same as that designated by keypad in the tool configured, and it is only one in the network.
		Network Config. Problem.	Check if it exceeds the max. length of the segment. Check if 32 or more stations including repeater are connected with the segment. Check if 126 or more stations including repeater are connected with the network.
On	On-Line Status	Network, Station Address, Parameterization, Configuration are all in normal condition	

7.2 CPU LED Operation and Measures against Error

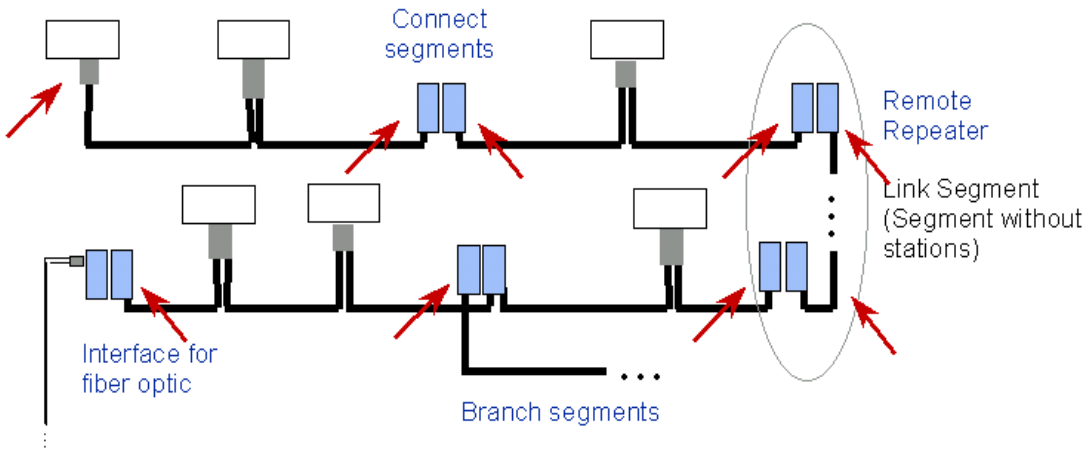
LED	Status	Cause	Help
Off	Power Supply Defect	inverter power supply defect/ Defect of Contact between inverter and option	Check for the condition of inverter power supply. Check for error of inverter. Check for the contact between inverter and connector.
Flashing with 1 sec. interval	Normal	Normal Operation	

7.3 Error LED Operation and Measures against Error

LED	Status	Cause	Help
Off	Normal	Normal Operation	
Flashing with 1 sec. interval	Inverter ~ option communication Error	Communication between inverter and option is not available	Check for abnormal connection between option and inverter. ▪ It flashes like CPU LED.
Flashing with approx. 1 sec. interval	CONFIG ERROR	When On line status is arranged in the Master, if configurations of Master and Profibus option are different each other.	Check if the config. info. of inverter set in Master corresponds with that inside the inverter. ▪ Configured Data: Number of Status Data and Control Data. ▪ It flashes contrary to CPU LED.

8. Construction of System & Transmission Specification

8.1 Installation of Terminating Resistance and its Specification



Max. Number Repeater Cascading: 9

Termination "on"

8.2 Max. Transmitting Distance Specification

Communication Speed(Kbps)	Max. Segment Length	Max. Extended Distance
9.60	1000 m / 3278 feet	10000 m / 32786 feet
19.20	1000 m / 3278 feet	10000 m / 32786 feet
93.75	1000 m / 3278 feet	10000 m / 32786 feet
187.50	1000 m / 3278 feet	10000 m / 32786 feet
500.00	400 m / 1311 feet	4000 m / 13114 feet
1500.00	200 m / 655 feet	2000 m / 6557 feet
3000.00	100 m / 327 feet	1000 m / 3278 feet
6000.00	100 m / 327 feet	1000 m / 3278 feet
12000.00	100 m / 327 feet	1000 m / 3278 feet

9. Environment Configuration & Other Functions

9.1 GSD Files (Electronic Data Sheets)

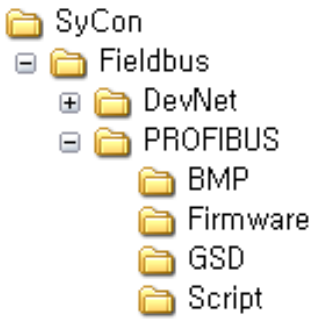
This is the file including the information of inverter Profibus Option Module.

This file is required in the Profibus Configuration Software. Be sure to use iS7-use GSD file.

The relevant file can be downloaded from the homepage of LSIS Co., Ltd. (http://www.lsis.biz).

- GSD File Name : LSIS0A6C.GSD
- Version : 2.00
- ICON File Name
  - Stop Icon : LSIS_INV_S.DIB
  - Run Icon : LSIS_INV_R.DIB
  - Diagnostic Icon : LSIS_INV_D.DIB
- It doesn't support from Module = "9 Word Status Input Data" 0h58 to Module = "16 Word Status Input Data", and from Module = "9 Word Control Output Data" 0h68 to Module = "16 Word Control Output Data" 0h6F.

You may attach LSIS0A6C.GSD to the folder where GSD file is stored in Master Configuration program, and attach ICON files to the ICON storage folder.



Ex) In case it is Sycon used in XGT;

Here, you may attach LSIS0A6C.GSD to GSD under the PROFIBUS folder, and then attach ICON files to BMP.

9.2 User Parameter Setting

You may set Profibus-use User Parameter including Sycon in Profibus Master.

(1) Data Word Format

Inverter data is word, which is sent divided into byte at the time of data transmission.

At this time, whether transmitting to MSB-LSB or to LSB-MSB will be elected.

Initial value is MSB-LSB.

(2) Config Data Update

Decide if forcing to set the number of inverter I/O data compulsorily by the Master, or generating the Configuration Error.

Selection is to be made out of Disable and Enable. If Enable is selected, the set value of master is forced to be set in the inverter.

At this time, the initial value is Disable. If the number of I/O data set in the inverter doesn't corresponds with that set in the Master,

Config Err occurs. This is the useful function when testing the communication with the inverter under Enable status.

9.3 Extended Diagnostic

As the safety-related function, it generates diagnostic in the master when trip occurs in inverter or option.

There are 5 defined extended diagnostics as follows:

1. Cannot connect between Main and Option: Defect of communication between inverter and option
2. Inverter H/W Diag Trip: When hardware diagnostic trip occurs in the inverter
3. Inverter Latch Type Trip: When trip in latch type occurs
4. Inverter Level Type Trip: When trip in level type occurs
5. Inverter Warning: When warning occurs

10. Communication Parameter

10.1 Map Structure of Whole Communication Parameter in European Style

Category	Address	Type of Parameter
iS5 Series Compatible Common Category	0h0000~0h00FF	
Parameter Registered Type Category	0h0100~0h01FF	Parameter registered on COM Grp
	0h0200~0h023F	Parameter registered on Usr Grp
	0h0240~0h027F	Parameter registered on Macro Grp
	0h0280~0h02FF	Reserved
European Common Category	0h0300~0h037F	Inverter State (Read Only) Parameter
	0h0380~0h03FF	Inverter Control (Read/Write) Parameter
	0h0400~0h0FFF	Reserved
KeyPad Parameter Category	0h1000	MAK Grp
	0h1100	DRV Grp
	0h1200	BAS Grp
	0h1300	ADV Grp
	0h1400	CON Grp
	0h1500	IN Grp
	0h1600	OUT Grp
	0h1700	COM Grp
	0h1800	APP Grp
	0h1900	AUT Grp
	0h1A00	APO Grp
	0h1B00	PRT Grp
	0h1C00	M2 Grp

10.2 Parameter Group for Periodical Transmission

Parameter Group that can make Communication using the Address registered in Communication Function Group (COM)

0h100 ~ 0h107: Inverter Status Parameter registered on Status Para # of KeyPad Parameter COM Group

0h110 ~ 0h117: Inverter Control Parameter registered on Control Para # of KeyPad Parameter COM Group

All other categories (0h108 ~ 0h10F, 0h117 ~ 0h1FF) are invalid addresses.

Address	Parameter	R/W	Value Allotted by Bit
0h0100	Status Parameter #1	R	Parameter value registered on COM-31
0h0101	Status Parameter #2	R	Parameter value registered on COM-32
0h0102	Status Parameter #3	R	Parameter value registered on COM-33
0h0103	Status Parameter #4	R	Parameter value registered on COM-34
0h0104	Status Parameter #5	R	Parameter value registered on COM-35
0h0105	Status Parameter #6	R	Parameter value registered on COM-36
0h0106	Status Parameter #7	R	Parameter value registered on COM-37
0h0107	Status Parameter #8	R	Parameter value registered on COM-38
0h108~0h10F	Invalid address	-	Category not used
0h0110	Control Parameter #1	R/W	Parameter value registered on COM-51
0h0111	Control Parameter #2	R/W	Parameter value registered on COM-52
0h0112	Control Parameter #3	R/W	Parameter value registered on COM-53
0h0113	Control Parameter #4	R/W	Parameter value registered on COM-54
0h0114	Control Parameter #5	R/W	Parameter value registered on COM-55
0h0115	Control Parameter #6	R/W	Parameter value registered on COM-56

Address	Parameter	R/W	Value Allotted by Bit
0h0116	Control Parameter #7	R/W	Parameter value registered on COM-57
0h0117	Control Parameter #8	R/W	Parameter value registered on COM-58
0h118~0h1FF	Invalid address	-	Category not used

10.3 Parameter Group for User & Macro Grp Transmission

0h200 ~ 0h23F: User Grp Parameter Currently Registered

Address	Parameter	Value Allotted by Bit
0h0200	User Grp. Code 1	Parameter value registered on U&M>USR->1
0h0201	User Grp. Code 2	Parameter value registered on U&M>USR->2
0h0202	User Grp. Code 3	Parameter value registered on U&M>USR->3
0h0203	User Grp. Code 4	Parameter value registered on U&M>USR->4
.	.	.
0h023C	User Grp. Code 61	Parameter value registered on U&M>USR->61
0h023D	User Grp. Code 62	Parameter value registered on U&M>USR->62
0h023E	User Grp. Code 63	Parameter value registered on U&M>USR->63
0h023F	User Grp. Code 64	Parameter value registered on U&M>USR->64

* In case of accessing the code not registered on User Grp, return to “Illegal data address” Error Code “02”.

10.4 0h240 ~ 0h27F: Macro Grp Parameter Currently Configured

Address	Parameter	Value Allotted by Bit
0h0240	Macro Grp. Code 1	Parameter value registered on U&M>MC->1
0h0241	Macro Grp. Code 2	Parameter value registered on U&M>MC->2
0h0242	Macro Grp. Code 3	Parameter value registered on U&M>MC->3
0h0243	Macro Grp. Code 4	Parameter value registered on U&M>MC->4
.	.	.
0h024C	Macro Grp. Code 61	Parameter value registered on U&M>MC->61
0h024D	Macro Grp. Code 62	Parameter value registered on U&M>MC->62
0h024E	Macro Grp. Code 63	Parameter value registered on U&M>MC->63
0h024F	Macro Grp. Code 64	Parameter value registered on U&M>MC->64

* In case of accessing the code not smaller than the size of macro currently configured, return to “Illegal data address” Error Code “02”.

NOTE

For further inverter address and function, please refer to ‘Communication Function’, Section 11 in iS7 Main Body Manual.

11. Parameter description

11.1 List of iS7 Profibus Communication Related Parameters

Code	Parameter Name	Initial Value	Range
CFG-30	Option-1 Type	-	-
DRV-06	Cmd Source	0(Fx/Rx-1)	0. Keypad
			1. Fx/Rx-1
			2. Fx/Rx-2
			3. RS485
			4. FieldBus
DRV-07	Freq Ref Src	0(Keypad-1)	0. Keypad-1
			1. Keypad-2
			2. V1
			3. Reserved
			4. V2
			5. I2
			6. Int 485
			7. Reserved
			8. Fieldbus
			9. Reserved
			10. Reserved
			11. Reserved
			12. Pulse
COM-06	FBus S/W Ver	-	-
COM-07	FBusID	1	1~125
COM-09	FBusLED	-	-
COM-30	Para Status Num	3	0~8
COM-31	Para Status-1	0h000A	0~0hFFFF
COM-32	Para Status-2	0h000E	0~0hFFFF

Code	Parameter Name	Initial Value	Range
COM-33	Para Status-3	0h000F	0~0hFFFF
COM-34	Para Status-4	0h0000	0~0hFFFF
COM-35	Para Status-5	0h0000	0~0hFFFF
COM-36	Para Status-6	0h0000	0~0hFFFF
COM-37	Para Status-7	0h0000	0~0hFFFF
COM-38	Para Status-8	0h0000	0~0hFFFF
COM-50	Para Ctrl Num	2	0~8
COM-51	Para Control-1	0h0005	0~0hFFFF
COM-52	Para Control-2	0h0006	0~0hFFFF
COM-53	Para Control-3	0h0000	0~0hFFFF
COM-54	Para Control-4	0h0000	0~0hFFFF
COM-55	Para Control-5	0h0000	0~0hFFFF
COM-56	Para Control-6	0h0000	0~0hFFFF
COM-57	Para Control-7	0h0000	0~0hFFFF
COM-58	Para Control-8	0h0000	0~0hFFFF
PRT-12	Lost Cmd Mode	0(None)	0. None
			1. Free-Run
			2. Dec
			3. Hold Input
			4. Hold Output
			5. Lost Preset
PRT-13	Lost Cmd Time	1.0 sec	0.1~120.0 sec
PRT-14	Lost Preset F	0 Hz	Start frequency ~ Maximum frequency [Hz]

11.2 Description of iS7 Profibus Communication Related Parameters

11.2.1 Mounted Communication Card Information – Option-1 Type (CNF-30)

The kind of communication card mounted on iS7 is automatically displayed.

When iS7 Profibus communication card is mounted, CNF-30 “Profibus” is automatically displayed.

Not displaying the name of option mounted on the Option Type indicates that interface communication between inverter body and option is not normally operated.

11.2.2 Establishment of Inverter Operation Command Source– Cmd Source (DRV-06)

The operation command source is set.

To issue run/stop command to inverter via Profibus communication, DRV-06 Cmd Source needs to be set into “Fieldbus”.

11.2.3 Establishment of Inverter Frequency Command Source– Freq Ref Src(DRV-07)

The frequency command source of inverter is set.

To set command frequency of inverter via Profibus communication, DRV-07Freq Ref Src needs to be set into “Fieldbus”.

11.2.4 Information of Mounted Communication Card Version– FBus S/W Ver(COM-06)

The version of mounted communication card is automatically displayed.

11.2.5 Station ID Setting–Fbus ID(COM-07)

It is a parameter to set Station ID values of Profibus. Station Number can be set from 1 to 125.

Duplicated Station ID setting is not permitted. Please check if Station ID value to be set is established as other Station ID of the network.

11.2.6 Display of LED Status Indicating Communication Status–Fbus LED(COM-9)

It is a parameter that displays flashing status of DATA_EX, ERROR and CPU LEDs mounted on the Profibus communication cards.

LED status is displayed in the order of RESERVED, DATA_EX, ERROR and CPU LEDs from right to left on the keypad.

LED Type	RESERVED	DATA_EX (GREEN)	ERROR (RED)	CPU (GREEN)
Meaning	-	ON	OFF	ON
LCD KPD Value				

11.2.7 Establishment of Periodic Communication Parameters

(1) Input Data Number Setting– Para Status Num (COM-30)

The number of data inputted into master from inverter is set. The same value with the number of input data established in master configuration is inputted into COM-30 Para Status Num.

The discordance between the number of input data established in master configuration and that of COM-31 Para Status Num leads to communication failure.

(2) Establishment of Input Data Address– Para Status 1~8 (COM-31~38)

The Para Status address is set to meet the number established in OM-30 Para Status Num.

If COM-30 Para Status Num is set into“4”, inverter address through which data is sent to master needs to be inputted from COM-31~34 Para Status 1 to 4.

You can enter the inverter address by making reference to common area address and inverter keypad address.

(3) Output Data Number Setting– Para Ctrl Num (COM-50)

The number of data outputted to inverter from master is set. The same value with the number of output data established in master configuration is inputted into COM-30 Para Status Num.

The discordance between the number of output data established in master configuration and that of COM-31 Para Status Num leads to communication failure.

(4) Establishment of Output Data Address– Para Control 1~8 (COM-51~58)

The Para Status address is set to meet the number established in OM-50 Para Ctrl Num, and only available inverter address is to be entered from 1 to 8.

If COM-50 Para Ctrl Num is set into“2”, inverter address which is applicable to data inputted from master needs to be entered from COM-51~52 Para Control 1 to 2.

You can enter the inverter address by making reference to common area address and inverter keypad address.

11.2.8 Establishment of Lost Command Parameters

(1) Operating Method in Case of the Communication Command Loss– Lost Cmd Mode (PRT-12)

The operating method in case of the communication command loss is set when the loss of communication command is perceived by the occurrence of communication loss during ‘communication command loss determination time’.

To use communication command loss function, DRV-06 Cmd Source needs to be set into “Fieldbus’, or RV-07 Freq Ref Src as “Fieldbus”.

The operating method in case of the communication command loss is summarized as follows.

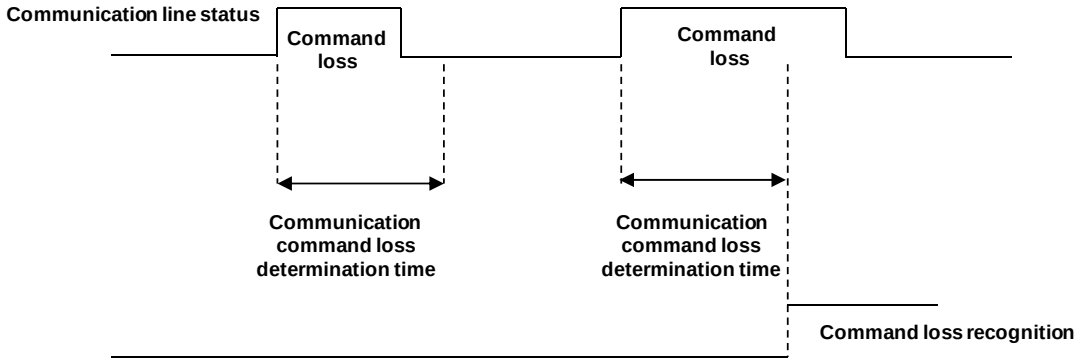
Set Value	Description	
0	None	Operation continues even in the event of the communication command loss
1	Free-Run	Output is blocked by inverter, and motor stops in a free-run state.
2	Dec	Deceleration stop proceeds in accordance with time set in the PRT-07Trip Dec Time.
3	Hold Input	Operation continues by means of the average value of the input for the last 10 seconds until the moment when the loss of speed command is determined.
4	Hold Output	Operation continues by means of the average value of the output for the last 10 seconds until the moment when the loss of speed command is determined.
5	Lost Preset	Operation proceeds in accordance with frequency set in the PRT-14 Lost Preset F.

(2) Communication Command Loss Determination Time– Lost Cmd Time (PRT-13)

The loss of communication command is perceived when communication loss occurs during the time established as ‘communication command loss determination time’.

To use communication command loss function, DRV-06 Cmd Source needs to be set into “Fieldbus’, or RV-07 Freq Ref Src as “Fieldbus”.

The loss is not recognized as an error as long as the communication is resumed within ‘communication command loss determination time’ and then system is restored to a normal state.



12. Existing iS5/iG5/ iG5A compatible common area parameter

Address	Parameter	Scale	unit	R/W	Allotment for Bits		
0h0000	Inverter model	-	-	R	B: iS7		
0h0001	Inverter capacity	-	-	R	0: 0.75kW	1: 1.5kW	2: 2.2kW
					3: 3.7kW	4: 5.5kW	5: 7.5kW
					6: 11kW	7: 15kW	8: 18.5kW
					9: 22kW	10: 30kW	11: 37kW
					12: 45kW	13: 55kW	14: 75kW
					15: 90kW	16: 110kW	17: 132kW
					18: 160kW	19: 200kW	20: 220kW
					21: 280kW	22: 375kW	65535: 0.4kW
0h0002	Inverter input voltage	-	-	R	0: 220V class		
					1: 400V class		
0h0003	Version	-	-	R	(example) 0h0100: Version 1.00		
					0h0101: Version 1.01		
0h0004	Reserved	-	-	R/W			
0h0005	Command frequency	0.01	Hz	R/W			
0h0006	Operating command (option) * see additional description	-	-	R	B15	Reserved	
					B14	0: Keypad Freq 1: Keypad Torq 2~16: Terminal block sequential 17: Up 18: Down 19: STEADY 20: AUTO-A 21: AUTO-B 22: V1 23: 1	
					B13		
					B12		
					B11		
					B10		
					B9		

Address	Parameter	Scale	unit	R/W	Allotment for Bits	
						24: V2 25: I2 26: Reserved 27: Built-in485 28: Communication option 29: PLC option 30: JOG 31: PID
					B8	0: Keypad 1: FX/RX-1 2: FX/RX-2 3: Built-in 485 4: Communication option 5: PLC option
					B7	
					B6	
				R/W	B5	Reserved
					B4	Emergency stop
					B3	W: Trip reset (0→1) R: Trip status
					B2	Reverse operation (R)
					B1	Forward operation (F)
					B0	Stop (S)
0h0007	accelerating time	0.1	sec	R/W	-	
0h0008	decelerating time	0.1	sec	R/W	-	
0h0009	output current	0.1	A	R	-	
0h000A	output frequency	0.01	Hz	R	-	
0h000B	output voltage	1	V	R	-	
0h000C	DC Link voltage	1	V	R	-	
0h000D	output power	0.1	kW	R	-	
0h000E	status of Inverter	-	-	-	B15	0: Remote, 1: Keypad Local
					B14	1: Frequency command by comm.

Address	Parameter	Scale	unit	R/W	Allotment for Bits	
						(Built-in type, Option)
					B13	1: Run command by comm. (Built-in type, Option)
					B12	Reverse direction run command
					B11	Forward direction run command
					B10	Brake open signal
					B9	Jog mode
					B8	Stop
					B7	DC Braking
					B6	Speed reached
					B5	Decelerating
					B4	Accelerating
					B3	Operates according to the set value of Fault (Trip) *PRT-30 Trip Out Mode
					B2	Reverse operation
					B1	Forward operation
					B0	Stop
0h000F	Trip information	-	-	R	B15	Reserved
					B14	Reserved
					B13	Reserved
					B12	Reserved
					B11	Reserved
					B10	H/W-Diag
					B9	Reserved

Address	Parameter	Scale	unit	R/W	Allotment for Bits	
					B8	Reserved
					B7	Reserved
					B6	Reserved
					B5	Reserved
					B4	Reserved
					B3	Level Type Trip
					B2	Reserved
					B1	Reserved
					B0	Latch Type Trip
0h0010	Input terminal information	-	-	R	B15	Reserved
					B14	Reserved
					B13	Reserved
					B12	Reserved
					B11	Reserved
					B10	P11 (extended I/O)
					B9	P10 (extended I/O)
					B8	P9 (extended I/O)
					B7	P8
					B6	P7
					B5	P6
					B4	P5
					B3	P4
					B2	P3

Address	Parameter	Scale	unit	R/W	Allotment for Bits	
					B1	P2
					B0	P1
0h0011	output terminal information	-	-	R	B15	Reserved
					B14	Reserved
					B13	Reserved
					B12	Reserved
					B11	Reserved
					B10	Reserved
					B9	Reserved
					B8	Reserved
					B7	Reserved
					B6	Reserved
					B5	Relay 5(extended I/O)
					B4	Relay 4(extended I/O)
					B3	Relay 3(extended I/O)
					B2	Q1
					B1	Relay 2
					B0	Relay 1
0h0012	V1	0.01	%	R	V1 voltage input	
0h0013	V2	0.01	%	R	V2 voltage input(extended I/O)	
0h0014	I1	0.01	%	R	I1 current input	
0h0015	Motor rotation speed	1	rpm	R	Current motor rotation speed displayed	
0h0016	Reserved	-	-	-	-	

Address	Parameter	Scale	unit	R/W	Allotment for Bits
~0h0019					
0h001A	Hz/rpm selection	-	-	R	0: Hz unit 1: rpm unit
0h001B	Motor poles displayed	-	-	R	Motor poles displayed

13. iS7 Extended common area parameter

13.1.1 Inverter Monitoring Area Parameter (Reading only)

Address	Parameter	Scale	unit	Allotment for Bits
0h0300	Inverter model	-	-	iS7: 000Bh
0h0301	Inverter capacity	-	-	0.75kW: 3200h 1.5kW: 4015h, 2.2kW: 4022h, 3.7kW: 4037h, 5.5kW: 4055h, 7.5kW: 4075h, 11kW: 40B0h 15kW: 40F0h, 18.5kW: 4125h, 22kW: 4160h, 30kW: 41E0h, 37kW: 4250h, 45kW: 42D0h 55kW: 4370h, 75kW: 44B0h, 90kW: 45A0h 110kW: 46E0h, 132kW: 4840h, 160kW: 4A00h 185kW: 4B90h
0h0302	Inverter input voltage / power supply type (single phase, 3 phase) / cooling method	-	-	200V single phase open air cooling: 0220h 200V 3 phase open air cooling: 0230h 200V single phase forced cooling: 0221h 200V 3 phase forced cooling: 0231h 400V single open air cooling: 0420h 400V 3 phase open air cooling: 0430h 400V single phase forced cooling: 0421h 400V 3 phase forced cooling: 0431h
0h0303	Inverter S/W version	-	-	(example) 0h0100: Version 1.00 0h0101: Version 1.01

Address	Parameter	Scale	unit	Allotment for Bits	
0h0304	Reserved	-	-	-	
0h0305	Inverter operating status	-	-	B15 B14 B13 B12	0: normal status 4: Warning status 8: Fault status (operates according to set value of PRT-30 Trip Out Mode)
				B11 B10 B9 B8	-
				B7 B6 B5 B4	1: Speed search 2: Accelerating 3: Steady speed 4: Decelerating 5: Decelerating stop 6: H/W OCS 7: S/W OCS 8: Dwell operating
				B3 B2 B1 B0	0: stop 1: forward operating 2: reverse operating 3: DC operating(0 speed control)
0h0306	Inverter run frequency command source	-	-	B15 B14 B13 B12 B11 B10	Run command source 0: Keypad 1: Communication option 2:App/PLC 3. Built-in 485 4: Terminal Block 5:reserved 6:Auto 1 7:Auto 2

Address	Parameter	Scale	unit	Allotment for Bits	
				B9	
				B8	
				B7	Frequency command source 0: Keypad speed 1: Keypad torque 2~4:Up/Down run speed 5: V1 6: I1 7: V2 8: I2 9: Pulse 10: Built-in485 11: Communication option 12: App(PLC) 13: Jog 14: PID 15~22: Auto Step 25~39: Multi-step speed frequency
				B6	
				B5	
				B4	
				B3	
				B2	
				B1	
				B0	
0h0307	Keypad S/W version			(E.g) 0h0100: Version 1.00	
0h0308	Keypad Title version			0h0101: Version 1.01	
0h0309 ~0h30F	reserved				
0h0310	Output current	0.1	A	-	
0h0311	Output frequency	0.01	Hz	-	
0h0312	Output RPM	0	RPM	-	
0h0313	Motor feedback speed	0	RPM	-32768rpm~32767rpm (Having a polarity.)	
0h0314	Output voltage	0.1	V	-	
0h0315	DC Link voltage	0.1	V	-	
0h0316	Output power	0.1	kW	-	
0h0317	Output Torque	0.1	%	-	

Address	Parameter	Scale	unit	Allotment for Bits	
0h0318	PID reference	0.1	%	-	
0h0319	PID feedback	0.1	%	-	
0h031A	Number of No.1 motor display	-	-	Number of No.1 motor display	
0h031B	Number of No.2 motor display	-	-	Number of No.2 motor display	
0h031C	Number of selected motor display	-	-	Number of selected motor display	
0h031D	Selection among Hz/rpm	-	-	0: Hz unit 1: rpm unit	
0h031E ~0h031F	Reserved	-	-	-	
0h0320	Digital input information			BI5	Reserved
				BI4	Reserved
				BI3	Reserved
				BI2	Reserved
				BI1	Reserved
				BI0	P11 (Extended I/O)
				B9	P10 (Extended I/O)
				B8	P9 (Extended I/O)
				B7	P8 (Basic I/O)
				B6	P7 (Basic I/O)
				B5	P6 (Basic I/O)
				B4	P5 (Basic I/O)
				B3	P4 (Basic I/O)
				B2	P3 (Basic I/O)
				B1	P2 (Basic I/O)

Address	Parameter	Scale	unit	Allotment for Bits	
				B0	P1 (Basic I/O)
0h0321	Digital output information	-	-	BI5	Reserved
				BI4	Reserved
				BI3	Reserved
				BI2	Reserved
				BI1	Reserved
				BI0	Reserved
				B9	Reserved
				B8	Reserved
				B7	Reserved
				B6	Reserved
				B5	Relay 5 (Extended I/O)
				B4	Relay 4 (Extended I/O)
				B3	Relay 3 (Extended I/O)
				B2	Q1 (Basic I/O)
				B1	Relay 2 (Basic I/O)
				B0	Relay 1 (Basic I/O)
0h0322	Virtual digital input information	-	-	B15	Virtual DI 16 (COM85)
				B14	Virtual DI 15 (COM84)
				B13	Virtual DI 14 (COM83)
				B12	Virtual DI 13 (COM82)
				B11	Virtual DI 12 (COM81)
				BI0	Virtual DI 11 (COM80)

Address	Parameter	Scale	unit	Allotment for Bits	
				B9	Virtual DI 10 (COM79)
				B8	Virtual DI 9 (COM78)
				B7	Virtual DI 8 (COM77)
				B6	Virtual DI 7 (COM76)
				B5	Virtual DI 6 (COM75)
				B4	Virtual DI 5 (COM74)
				B3	Virtual DI 4 (COM73)
				B2	Virtual DI 3 (COM72)
				B1	Virtual DI 2 (COM71)
				B0	Virtual DI 1 (COM70)
0h0323	Selected motor display	-	-	0: No.1 motor / 1: No.2 motor	
0h0324	AI1	0.01	%	Analog input1 (Basic I/O)	
0h0325	AI2	0.01	%	Analog input2 (Basic I/O)	
0h0326	AI3	0.01	%	Analog input3 (Extended I/O)	
0h0327	AI4	0.01	%	Analog input4 (Extended I/O)	
0h0328	AO1	0.01	%	Analog output1 (Basic I/O)	
0h0329	AO2	0.01	%	Analog output2 (Basic I/O)	
0h032A	AO3	0.01	%	Analog output3 (Extended I/O)	
0h032B	AO4	0.01	%	Analog output4 (Extended I/O)	
0h032C	Reserved	-	-	-	
0h032D	Reserved	-	-	-	
0h032E	Reserved	-	-	-	
0h032F	Reserved	-	-	-	

Address	Parameter	Scale	unit	Allotment for Bits	
0h0330	Latch type trip information-1	-	-	BI5	Fuse Open Trip
				BI4	Overheat Trip
				BI3	Arm Short
				BI2	External Trip
				BI1	Overvoltage Trip
				BI0	Overcurrent Trip
				B9	NTC Trip
				B8	Overspeed Deviation
				B7	Overspeed
				B6	Input open-phase trip
				B5	Output open-phase trip
				B4	Ground Fault Trip
				B3	E-Thermal Trip
				B2	Inverter Overload Trip
				B1	Underload Trip
				B0	Overload Trip
0h0331	Latch type trip information-2	-	-	BI5	Reserved
				BI4	Reserved
				BI3	Inverter output cutoff by terminal block input on Safety Option (applied to above 90kW)
				BI2	Slot3 option board contact defectiveness
				BI1	Slot2 option board contact defectiveness
				BI0	Slot1 option board contact defectiveness

Address	Parameter	Scale	unit	Allotment for Bits	
				B9	No MotorTrip
				B8	External Brake Trip
				B7	Basic IO board contact defectiveness
				B6	Pre PID Fail
				B5	Error on Parameter Write
				B4	Reserved
				B3	FAN Trip
				B2	PTC (Thermal sensor) Trip
				B1	Encoder Error Trip
				B0	MC Fail Trip
0h0332	Level type trip information	-	-	B15	Reserved
				B14	Reserved
				B13	Reserved
				B12	Reserved
				B11	Reserved
				B10	Reserved
				B9	Reserved
				B8	Reserved
				B7	Reserved
				B6	Reserved
				B5	Reserved
				B4	Reserved
				B3	Keypad Lost Command

Address	Parameter	Scale	unit	Allotment for Bits	
				B2	Lost Command
				B1	LV
				B0	BX
0h0333	H/W Diagnosis Trip information	-	-	B15	Reserved
				B14	Reserved
				B13	Reserved
				B12	Reserved
				B11	Reserved
				B10	Reserved
				B9	Reserved
				B8	Reserved
				B7	Reserved
				B6	Reserved
				B5	Reserved
				B4	Gate Drive Power Loss
				B3	Watchdog-2 error
				B2	Watchdog-1 error
				B1	EEPROM error
				B0	ADC error
0h0334	Warning information	-	-	B15	Reserved
				B14	Reserved
				B13	Reserved
				B12	Reserved

Address	Parameter	Scale	unit	Allotment for Bits	
				B11	Reserved
				B10	Reserved
				B9	Auto Tuning fail
				B8	Keypad Lost
				B7	Encoder miss-wiring
				B6	Encoder miss-installation
				B5	DB
				B4	FAN operation
				B3	Lost command
				B2	Inverter Overload
				B1	Underload
				B0	Overload
0h0335~ 0h033F	Reserved	-	-	-	
0h0340	On Time date	0	Day	Total number date of inverter power On	
0h0341	On Time minute	0	Min	Total minute except for total date of inverter On Time	
0h0342	Run Time date	0	Day	Total number day of inverter run	
0h0343	Run Time minute	0	Min	Total minute except for total day of Run Time	
0h0344	Fan Time date	0	Day	Total day of cooling fan run	
0h0345	Fan Time minute	0	Min	Total minute except for total day of Fan time	
0h0346	Reserved	-	-	-	
0h0347	Reserved	-	-	-	
0h0348	Reserved	-	-	-	

Address	Parameter	Scale	unit	Allotment for Bits
0h0349	Reserved	-	-	-
0h034A	Option 1	-	-	0: None 1: Reserved 2: Reserved 3: Profibus, 4: Reserved 5: Reserved 6: Reserved 7: RNet, 8: Reserved 9: Reserved 10: PLC, 20: External IO-1 23: Encorder
0h034B	Option 2	-	-	
0h034C	Option 3			

13.1.2 Inverter Control Area Parameter (Reading and Writing Available)

Address	Parameter	Scale	unit	Allotment for Bits	
0h0380	Frequency command	0.01	Hz	command frequency setting	
0h0381	RPM command	1	rpm	command RPM setting	
0h0382	Operating command	-	-	B7	Reserved
				B6	Reserved
				B5	Reserved
				B4	Reserved
				B3	0➔1: free run stop
				B2	0➔1: trip reset
				B1	0:reverse command 1:forward command
				B0	0:stop command 1:run command
				Ex) forward operatingcommand:0003h, reverse operatingcommand:0001h	
0h0383	Accelerating time	0.1	sec	Accelerating time setting	
0h0384	Decelerating timed	0.1	sec	Decelerating time setting	
0h0385	Virtual digital input control (0:Off, 1:On)	-	-	BI5	Virtual DI 16 (COM85)
				BI4	Virtual DI 15 (COM84)
				BI3	Virtual DI 14 (COM83)
				BI2	Virtual DI 13 (COM82)
				BI1	Virtual DI 12 (COM81)
				BI0	Virtual DI 11 (COM80)
				B9	Virtual DI 10 (COM79)

Address	Parameter	Scale	unit	Allotment for Bits	
				B8	Virtual DI 9 (COM78)
				B7	Virtual DI 8 (COM77)
				B6	Virtual DI 7 (COM76)
				B5	Virtual DI 6 (COM75)
				B4	Virtual DI 5 (COM74)
				B3	Virtual DI 4 (COM73)
				B2	Virtual DI 3 (COM72)
				B1	Virtual DI 2 (COM71)
				B0	Virtual DI 1 (COM70)
0h0386	Digital output control (0:Off, 1:On)	-	-	BI5	Reserved
				BI4	Reserved
				BI3	Reserved
				BI2	Reserved
				BI1	Reserved
				BI0	Reserved
				B9	Reserved
				B8	Reserved
				B7	Reserved
				B6	Reserved
				B5	Q4 (extended I/O, OUT36:None)
				B4	Q3 (extended I/O, OUT35:None)
				B3	Q2 (extended I/O, OUT34:None)
				B2	Q1 (basic I/O, OUT33:None)

Address	Parameter	Scale	unit	Allotment for Bits	
				B1	Relay2 (basic I/O, OUT32:None)
				B0	Relay1 (basic I/O, OUT31:None)
0h0387	Reserved	-	-	Reserved	
0h0388	PID reference	0.1	%	PID reference command released	
0h0389	PID feedback value	0.1	%	PID feedback value	
0h038A ~0h038F	Reserved	-	-	-	
0h0390	Torque Ref	0.1	%	torque command	
0h0391	Fwd Pos Torque Limit	0.1	%	forward motor ring torque limit	
0h0392	Fwd Neg Torque Limit	0.1	%	forward regenerative torque limit	
0h0393	Rev Pos Torque Limit	0.1	%	reverse motor ring torque limit	
0h0394	Rev Neg Torque Limit	0.1	%	reverse regenerative torque limit	
0h0395	Torque Bias	0.1	%	torque Bias	
0h0395 ~0h399	Reserved	-	-	-	
0h039A	Anytime Para	-	-	CNF-20 value setting (see page 13-40)	
0h039B	Monitor Line-1	-	-	CNF-21 value setting (see page 13-40)	
0h039C	Monitor Line-2	-	-	CNF-22 value setting (see page 13-40)	
0h039D	Monitor Line-3	-	-	CNF-23 value setting (see page 13-40)	

13.1.3 Inverter Memory Control Area Parameter(Reading and Writing Available)

In this area, if the parameter is set, it is not only reflected in the inverter but saved. Parameters of other areas, if set by communication, are reflected in the inverter but not saved. If you turn off the inverter and turn it on again, the values set by communication are all deleted and the pre-setting values are saved. Therefore you should save the parameter before turning off the inverter after setting through communication. However, in this area, set parameter values are directly saved in the inverter without the need to save the parameter values.

Address	Parameter	Scale	unit	Shift during operation	Function
0h03E0 note1)	Parameter saving	-	-	X	0: No 1:Yes
0h03E1 note1)	Monitor mode initialization	-	-	O	0: No 1:Yes
0h03E2 note1)	Parameter initialization	-	-	X	0: No 1: All Grp 2: Drv Grp 3:BAS Grp 4: ADV Grp 5:CON Grp 6:IN Grp 7:OUT Grp 8: COM Grp 9:APP Grp 10:AUT Grp 11:APO Grp 12:PRT Grp 13:M2 Grp *no setting during trip
0h03E3	Changed parameter displayed	-	-	O	0: No 1:Yes
0h03E4	Macro function item	-	-	X	0:None 1: Draw App 2: Traverse
0h03E5 note1)	All history of failure deleted	-	-	O	0: No 1:Yes
0h03E6 note1)	User registration code deleted	-	-	O	0: No 1:Yes
0h03E7 note 2)	Parameter mode hidden	0	Hex	O	writing: 0 ~ 9999 reading: 0: Unlock 1:Lock
0h03E8 note 2)	Parameter editing locked	0	Hex	O	writing: 0 ~ 9999 reading: 0: Unlock 1:Lock

Address	Parameter	Scale	unit	Shift during operation	Function
0h03E9	Initial parameter easy setting	-	-	O	0: No 1:Yes
0h03EA note1)	Consumed power initialization	-	-	O	0: No 1:Yes
0h03EB note1)	Cumulative inverter operating time initialization	-	-	O	0: No 1:Yes
0h03EC note1)	Cumulative cooling fan operating time initialization	-	-	O	0: No 1:Yes

note1) Be careful in setting parameters. Set parameters at 0 through communication and then set them at other values. If you input a value other than 0 while it is set at a value other than 0, an error message will respond.

If you read this parameter through communication, you will know the previously set values.

**The time required might be longer because the data is saved in the inverter, thus possibly interrupting the communication. Be careful when setting.

note 2) The parameters that input password. If you input password, the Lock status becomes Unlock status and the Unlock status becomes Lock status. If you consecutively input the same password, only the first parameter is implemented and the following values are not reflected. Therefore if you want to input the same value for another time, change it to another value and input the previous value again.

E.g.) Follow the order below if you want to input 244 twice.

244 -> 0 -> 244

Warranty

Product Name	Profibus Option	Date of Installation	
Model Name	SV-iS7 Series	Warranty Period	
Customer	Name		
	Address		
	Phone Number		
Sales Agency	Name		
	Address		
	Phone Number		

Notes
This inverter has been manufactured by LSIS using strict quality control and inspection processes. The warranty period is 18 months from the date of installation. A period of 18 months from the date of manufacture will be applied if the date of installation has not been entered. However, the warranty period may vary according to the terms of the contract.

Free after-sales servicing
If the drive fails as a result of normal usage during the warranty period, contact our agency or designated service center. We will repair the drive free of charge.

Paid Servicing
In the following instances, repair services are provided for a fee: ▪ If the damage is the result of deliberate action or negligence. ▪ If the damage is the result of power supply problems or an improper connecting device. ▪ If the damage is the result of a natural disaster (for example, fire, flood, gas, earthquake, etc.). ▪ If the inverter has been modified or repaired somewhere other than our agency or service center. ▪ If there is no LSIS name plate attached. ▪ If the warranty period is over.

Please visit the LSIS homepage (http://www.lsis.biz) for more useful information and services:

Manual Revision History

No.	Date of Publication	Contents Changed	Version Number	Remarks
1	First Edition		V1.0	

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