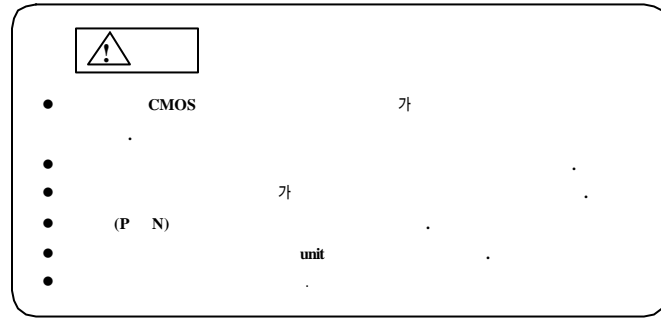


RS485
SV-iS5



RS485
RS485



1. FA SV-iS5 SV-iS5 LG
- 1.1. User 가 가
- * RS485 가
- * RS232-485 RS232 가

- 2.1.

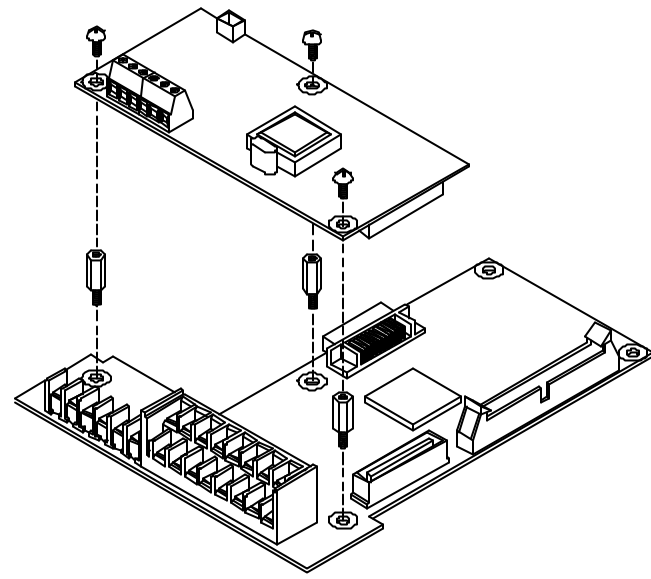
RS485 (RS232-485)
Bus, Multidrop Link System
SV-iS5 series
RS232가
31
Max. 1200m(700m)

- 2.2.
- 2.3.

19200/9600/4800/2400/19200 bps	가
Half duplex system	
ASCII (8 bit)	
Stop bit	1 bit
Error check(CRC16)	2 byte
Parity check	None

- 3.1.

P	485	- high
N	485	- low
G	485	Ground
S	Shield	
T1		
T2	T1 T2	



1. RS485

< LED >

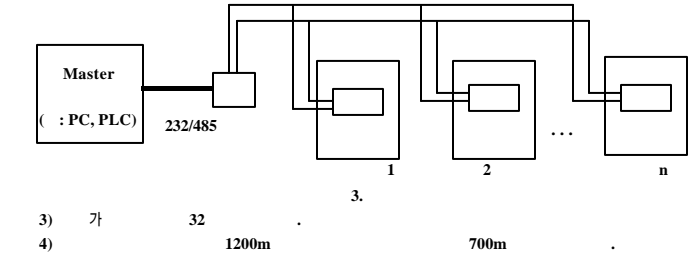
CPU LED	가
RXD LED	485
TXD LED	485
ERR LED	DATA ()
	CPU DPRAM
	CPU Network Connection TimeOut

- 4.1. (2) RS485

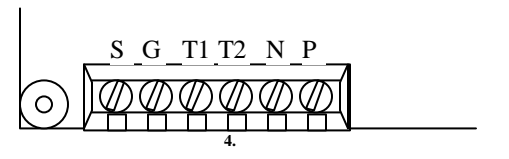
< EXT 51 >	Opt mode	1-32
< I/O 46 >	Inv. number	(가)
< I/O 47 >	Baud-rate	9600 bps ()
< I/O 48 >	Lost command(1)	
< I/O 57 >	Remote T.Out(1)	0.0 ()

4.2. RS232-485

4.3. 4.3.1.



4.3.2.



S	G	T1	T2	N	P
shield	Ground	Termination			

S : Shield
G : 485 Ground
T1, T2 :

5.

- RS485 (LG) RS485 Open Protocold
- 가 가 가 가

5.1.

Function Code	
'R'	
'W'	
'X'	
'Y'	

(: (ASCII CODE))

5.2. BroadCast

- 255

5.3.

ILLEGAL FUNCTION	IF	
ILLEGAL DATA ADDRESS	IA	가
ILLEGAL DATA VALUE	ID	data가
WRITE MODE ERROR	WM	Read Only
FRAME ERROR	FE	Frame Num Sum
TIME OUT ERROR	TO	DPRAM
DPRAM OFF LINE	DO	dpram Off Line
INVALID ID NUMBER	IN	
UNDEFINED CONDITION	UC	가

5.4. BaudRate

1200, 2400, 4800, 9600, 19200bps (default 9600bps)

6.

• CPU LED가

가
1. 가
2. 가

• TXD LED RXD LED가

가?	
가?	
가 가?	"4 "
가?	
가?	"4 "
User 가?	User (2)
가?	"4 "

2) User 가 PC s/w

• ERR LED가

Noise
CPU LED Network TimeOut(I/O 49)
CPU LED 가 On/Off A/S

20 (LG 9)

PLC TEL:(02)3777-4620-3 FAX:(02)3777-4622

INV TEL:(02)3777-4612-4 FAX:(02)3777-4622

TEL:(051)310-6855-5 FAX:(051)310-6851

TEL:(053)603-7740-5 FAX:(053)603-7788

() TEL:(062)510-1885-9 FAX:(062)526-3262

() TEL:(042)480-8919-2 FAX:(042)489-8672

Drive System TEL:(02)3777-4616-5 FAX:(02)3777-4622

TEL:1544-2080 FAX:(02)3660-702-

A/S TEL:(02)895-4815-9 FAX:(02)895-4814

TEL:(041)550-8308-9 FAX:(041)554-3949

TEL:(051)310-8920-3 FAX:(051)310-6851

TEL:(053)603-7740-6 FAX:(053)603-7788

TEL:(062)510-1890 FAX:(062)526-3262

LG 2-450 (361-302)

TEL : (043)268-2631-2 FAX : (043)268-2633-4

http://www.lgis.co.kr

7. (hex)

< > :		. (3)	
No.	Unit	R/W	
0x0000		R	4: SV-SS
0x0001		R	0: 0.75 1:1.5 2:2.2 3: 3.7 4: 5.5 5: 7.5 6: 11 7: 15 8: 18.5 9: 22 (200V) 10: 0.75 11:1.5 12:2.2 13: 3.7 14: 5.5 15: 7.5 16: 11 17: 15 18: 18.5 19: 22(400V) (: kW)
0x0002		R	0: 220V 1: 440V
0x0003		R	0100: Ver. 1.00, 0101: Ver 1.01
0x0005		R/W	0.01Hz
0x0006		R/W	Bit 0: Bit 1: Bit 2: Bit 3: Fault Bit 4:
0x0007	가	R/W	0.1 sec
0x0008		R/W	0.1 sec
0x0009		R	0.1 A
0x000A		R	0.01 Hz
0x000B		R	0.1 V
0x000C	DC Link	R	0.1 V
0x000D		R	0.1 kW
0x000E		R	Bit 0: , Bit 1: Bit 2: Bit 3:Fault(Trip) Bit 4:가 Bit 5: Bit 6: Bit 7:DC Braking , Bit 8: Bit 9: Bit10: Bit13: Rem. Run/Stop Bit14: Rem. Freq. Cmd
0x000F		R	Bit 0: OC, Bit 1: OV, Bit 2: EXT Bit 3: BX, Bit 4: LV, Bit 5: Fuse Open, Bit 6: GF Bit 7: OH, Bit 8: ETH, Bit 9: OLT Bit10:HW-Diag Bit11:EXT-B Bit12:ASHT Bit13:OPT Bit 14: PO Bit15:IOLT
0x0010		R	Bit 0: FX, Bit 1: RXD, Bit 2: BX Bit 3: RST,- Bit 8: P1, Bit 9: P2, Bit 10: P3 Bit 11: P4, Bit 12: P5, Bit 13: P6
0x0011		R	Bit 0: Q1 (OC1) , Bit 1: Q2 (OC2) Bit 2: Q3 (OC3), Bit 3: AUX
0x0012	V1	R	0 - FFC0
0x0013	V2	R	0 - FFC0
0x0014	I	R	0 - FFC0
0x0015	RPM	R	

(3) 가 reset
가 reset
reset
OFF/ON

< DRV >		No.	Unit
5100	DRV#00	Cmd. Freq.	0 max freq. start freq. 0.01Hz
5101	DRV#01	Acc. Time	50 60000 0 0.01sec
5102	DRV#02	Dec. Time	100 60000 0 0.01sec
5103	DRV#03	Drive mode	1 2 0
5104	DRV#04	Freq. mode	0 4 0
5105	DRV#05	Step freq - 1	1000 MaxFreq startFreq 0.01Hz
5106	DRV#06	Step freq - 2	2000 MaxFreq startFreq 0.01Hz
5107	DRV#07	Step freq - 3	3000 MaxFreq startFreq 0.01Hz
510A	DRV#10	DC Link Voltage	0 - V

< FU1 >

No.	Unit
5201	FU1 #01 Drive mode 1 2 0
5202	FU1 #02 Freq. mode 0 4 0
5203	FU1 #03 Run prohibit 0 2 0
5205	FU1 #05 Acc. pattern 0 4 0
5206	FU1 #06 Dec. pattern 0 4 0
5207	FU1 #07 Stop mode 0 2 0
5208	FU1 #08 DcBr freq. 500 6000 startFreq 0.01Hz
5209	FU1 #09 DcBlk time 10 6000 0 0.01sec
520A	FU1 #10 DcBr value 50 1000 0 0.1%
520B	FU1 #11 DcBr time 10 600 0 0.1sec
520C	FU1 #12 DcSt value 50 1000 0 0.1%
520D	FU1 #13 DcSt time 0 600 0 0.1sec
5214	FU1 #20 Max freq. 6000 40000 4000 0.01Hz
5215	FU1 #21 Base freq. 6000 maxFreq 3000 0.01Hz
5216	FU1 #22 Start freq. 50 1000 10 0.01Hz
5217	FU1 #23 Freq limit 0 1 0
5218	FU1 #24 F-limit Lo. 0 highFreq startFreq 0.01Hz
5219	FU1 #25 F-limit Hi. 6000 maxFreq lowFreq 0.01Hz
521A	FU1 #26 Torque boost 0 1 0
521B	FU1 #27 Fwd boost 20 200 0 0.1%
521C	FU1 #28 Rev boost 20 200 0 0.1%
521D	FU1 #29 V/F pattern 0 2 0
521E	FU1 #30 User freq. 1 1500 maxFreq 0 0.01Hz
521F	FU1 #31 User volt. 1 25 100 0 %
5220	FU1 #32 User freq. 2 3000 maxFreq 0 0.01Hz
5221	FU1 #33 User volt. 2 50 100 0 %
5222	FU1 #34 User freq. 3 4500 maxFreq 0 0.01Hz
5223	FU1 #35 User volt. 3 75 100 0 %
5224	FU1 #36 User freq. 4 6500 maxFreq 0 0.01Hz
5225	FU1 #37 User volt. 4 100 100 0 %
5226	FU1 #38 Volt control 100 110 40 %
5227	FU1 #39 Energy save 0 80 0 %
5232	FU1 #50 ETH select 0 1 0
5233	FU1 #51 ETH Imin 150 200 contPerc %
5234	FU1 #52 ETH Cont 100 150 50 %
5235	FU1 #53 Motor type 0 1 0
5236	FU1 #54 OL level 150 150 30 %
5237	FU1 #55 OL time 100 300 0 0.1sec
5238	FU1 #56 OLT select 0 1 0
5239	FU1 #57 OLT level 180 200 30 %
523A	FU1 #58 OLT time 600 60000 0 0.1sec
523B	FU1 #59 Stall prev. 0 7 0
523C	FU1 #60 Stall level 150 150 30 %

< FU2 >

No.	Unit
530A	FU2 #10 Jump freq 0 1 0
530B	FU2 #11 jump lo 1 1000 jump Hi 1 StartFreq 0.01Hz
530C	FU2 #12 jump Hi 1 1500 maxFreq jump Lo 1 0.01Hz
530D	FU2 #13 jump lo 2 2000 jump Hi 2 StartFreq 0.01Hz
530E	FU2 #14 jump Hi 2 2500 maxFreq jump Lo 2 0.01Hz
530F	FU2 #15 jump lo 3 3000 jump Hi 3 startFreq 0.01Hz
5310	FU2 #16 jump Hi 3 3500 maxFreq jump Lo 3 0.01Hz
5314	FU2 #20 Power-on run 0 1 0
5315	FU2 #21 RST restart 0 1 0
5316	FU2 #22 Speed Search 0 15 0
5317	FU2 #23 SS Sup-Curr 100 200 80
5318	FU2 #24 SS P-gain 1000 30000 0
5319	FU2 #25 SS I-gain 10000 30000 0
531A	FU2 #26 Retry number 0 10 0
531B	FU2 #27 Retry delay 10 600 0 0.1sec

< FU2 >

No.	Unit
531E	FU2#30 Motor select 0 9 0
531F	FU2#31 Pole number 4 12 2
5320	FU2 #32 Rated-Slip 200 1000 0 0.01Hz
5321	FU2 #33 Rated-Curr 18 2000 10 0.1A
5322	FU2 #34 Noload-Curr 7 2000 5 0.1A
5324	FU2 #36 Efficiency 72 100 70
5327	FU2 #39 Carrier freq 50 150 10 0.1kHz
5328	FU2 #40 Control mode 0 3 0
5329	FU2 #41 Auto tuning 0 1 0
532A	FU2 #42 Rs(4) 0 5000 0 0.001ohm
532B	FU2 #43 Rr(5) 0 5000 0 0.001ohm
532C	FU2 #44 Lsigma(6) 0 MaxInduc 0 0.001mH
5332	FU2 #50 PID F/B 0 2 0
5333	FU2 #51 PID P-gain 3000 30000 0
5334	FU2 #52 PID I-time 300 30000 0
5335	FU2 #53 PID D-time 1 30000 0
5336	FU2 #54 PID limit 6000 maxFreq StartFreq 0.01Hz
5346	FU2 #70 Acc/Dec freq 0 1 0
5347	FU2 #71 Time scale 1 2 0
5348	FU2 #72 PowerOn disp 0 6 0
5349	FU2 #73 User disp 0 2 0
534A	FU2 #74 RPM factor 100 200 1 %
534B	FU2 #75 DB mode 1 2 0
534C	FU2 #76 DB %ED 10 30 0 %
534F	FU2 #79 S/W Version
5351	FU2 #81 2nd Acc time 50 60000 0 0.01sec
5352	FU2 #82 2nd Dec time 100 60000 0 0.01sec
5353	FU2 #83 2nd BaseFreq 6000 maxFreq 3000 0.01Hz
5354	FU2 #84 2nd V/F 0 2 0
5355	FU2 #85 2nd F-boost 20 200 0 0.1%
5356	FU2 #86 2nd R-boost 20 200 0 0.1%
5357	FU2 #87 2nd Stall 150 150 30 %
5358	FU2 #88 2nd ETH Imin 150 200 2nd ETH Cont %
5359	FU2 #89 2nd ETH Cont. 100 2nd ETH Imin 50 %
535A	FU2 #90 2nd R-Curr 36 2000 10 0.1A
538D	FU2 #93 Para. Init 0 6 0

(4 , 5 , 6)

< I/O >

No.	Unit
5401	I/O #01 V1 filter 10 10000 0 ns
5402	I/O #02 V1 volt x1 0 V1 vort x2 0 0.01V
5403	I/O #03 V1 freq y1 0 maxFreq 0 0.01Hz
5404	I/O #04 V1 volt x2 1000 1000 V1 volt x1 0.01V
5405	I/O #05 V1 freq y2 6000 maxFreq 0 0.01Hz
5406	I/O #06 I filter 10 10000 0 ns
5407	I/O #07 I curr x1 0 I curr x2 0 0.01mA
5408	I/O #08 I freq y1 0 maxFreq 0 0.01Hz
5409	I/O #09 I curr x2 2000 2000 I curr x1 0.01mA
540A	I/O #10 I freq y2 6000 maxFreq 0 0.01Hz
540B	I/O #11 Wire broken 0 2 0
540C	I/O #12 P1 define 0 25 0
540D	I/O #13 P2 define 1 25 0
540E	I/O #14 P3 define 2 25 0
540F	I/O #15 In Status 0 1 0
5410	I/O #16 Out Status 0 1 0
5411	I/O #17 Ti Filt Num 15 50 2
5414	I/O #20 Jog freq 1000 MaxFreq startFreq 0.01Hz
5418	I/O #24 Step freq - 4 4000 MaxFreq startFreq 0.01Hz
5419	I/O #25 Step freq - 5 5000 MaxFreq startFreq 0.01Hz
541A	I/O #26 Step freq - 6 4000 MaxFreq startFreq 0.01Hz

< I/O >

No.	Unit
541B	I/O #27 Step freq - 7 3000 MaxFreq startFreq 0.01Hz
541E	I/O #30 Acc time - 1 200 60000 0 0.1sec
541F	I/O #31 Dec time - 1 200 60000 0 0.1sec
5420	I/O #32 Acc time - 2 300 60000 0 0.1sec
5421	I/O #33 Dec time - 2 300 60000 0 0.1sec
5422	I/O #34 Acc time - 3 400 60000 0 0.1sec
5423	I/O #35 Dec time - 3 400 60000 0 0.1sec
5428	I/O #40 FM mode 0 3 0
5429	I/O #41 FM adjust 100 400 10 %
542A	I/O #42 FDT freq 3000 maxFreq 0 0.01Hz
542B	I/O #43 FDT band 1000 maxFreq 0 0.01Hz
542C	I/O #44 Aux mode 12 18 0
542D	I/O #45 Relay mode 2 7 0 BIT3
5430	I/O #48 Lost command 0 2 0
5431	I/O #49 Time out 1 1200 1 0.1sec
5432	I/O #50 Auto mode 0 2

< COM >

No.	Unit
5601	COM #01 Opt B/D 0 3 0
5602	COM #02 Opt mode 0 3 0
5632	COM #50 Inv No. 1 32 1
5633	COM #51 Baud rate 0 4 0

COM-1 [OPT B/D]

-
-

COM-2 [OPT Mode]

-

No.	Unit
0	None
1	Command
2	Freq
3	Cmd + Freq

COM-50 [Inv No.]

-

COM-51 [Baud rate]

-

No.	Unit
0	1200 bps
1	2400 bps
2	4800 bps
3	9600 bps
4	19200 bps

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LS산전주식회사

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• CHENGDU (성도)	TEL : (8628)8640-2758	FAX : (8628)8640-2759
• QINGDAO (칭도)	TEL : (86532)8501-6056	FAX : (86532)8501-6057
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• JINXING (칭도)	TEL : (86532)8482-4799	FAX : (86532)8481-1399
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