

Instruction Manual

SUNJE
Electrostatic

SBL-30W Communication



1 RS-485 Communication

1. Pin

- 1번 Pin : RS-485(+)
- 2번 Pin : RS-485(-)

2. Communication Spec.

- Baud : 9600
- Parity Bit : None
- Data Bit : 8
- Stop Bit : 1

2 Communication Protocol

1. Data Request		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	R	E	Q	,	A	*	h	h	Wr	Wn

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	C (Blower Type Ionizer)	A: Photo, B: Bar, C: Blower
2	Ionizer Model	1	4	SBL-30W
4, 5, 6	Data Request	3	REQ	Command(REQ, RUN, STP)
8	Blower Address	1	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8
9	End Code	1		
10, 11	Check Sum	2	ChcSum	
12, 13	Line Feed, New Line	2		

1. Data Receive		통신장비 ← SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	A	,	r	,	r	,	r	,	r	,
Byte	14	15	16	17	18	19	20	21	22	23	24	25		
Code	F/S	,	T/C	,	A/S	,	R/S	*	h	h	Wr	Wn		

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	C (Blower Type Ionizer)	A: Photo, B: Bar, C: Blower
2	Ionizer Model	1	4	SBL-30W
4	Blower Address	1	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8
6	Reserved	1	0	
8	Reserved	1	0	
10	Reserved	1	0	
12	Reserved	1	0	
14	Fan Speed	1	1 ~ 4	
16	Tip Clean State	1	Normal : 0 / Tip Cleaning : 1	
18	Alarm State	1	Normal : 0 / Ion Unbalance : 1 / Fan 비정상 : 2	
20	Run/Stop State	1	Run : 1 / Stop : 0	
21	End Code	1		
22, 23	Check Sum	2	CheckSum	
24, 25	Line Feed, New Line	2		

1. Comm Sample	
Request	\$C4,REQ,1*00WrWn Receive \$C4,1,0,0,0,0,0,0,1*6FWrWn

2. Control [Run]		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	R	U	N	,	A	*	h	h	Wr	Wn

2. No Receive	통신장비 ← SBL-30W
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3. Control [Stop]		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	S	T	P	,	A	*	h	h	Wr	Wn

3. No Receive	통신장비 ← SBL-30W
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4. Control [Tip Clean]		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	C	L	N	,	A	*	h	h	Wr	Wn

4. No Receive	통신장비 ← SBL-30W
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5. Control [Fan Speed]		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	U	P	F	,	A	*	h	h	Wr	Wn

5. No Receive	통신장비 ← SBL-30W
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6. Control [Fan Speed]		통신장비 → SBL-30W												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	C	4	,	D	N	F	,	A	*	h	h	Wr	Wn

6. No Receive	통신장비 ← SBL-30W
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Checksum Calculation	
\$ ~ * Calculation	
#include<stdio.h>	
void main()	
{	
char packet[] = "C4,REQ,1", cksum = 0;	
int i, size = 0;	
while(packet[size] != '\0') size++;	
for(i = 0 ; i < size ; i++)	
{	
if(i == 0)	
cksum = packet[i];	
else	
cksum^= packet[i];	
//printf("packet[%d] = %c, checksum = % 2x\n", i, packet[i], cksum);	
}	
printf("Request : \$C4,REQ,1*% 2X", cksum); //Checksum character send by ASCII.	
}	

※ Checksum 검사는 \$표시 이후부터 *표시 전까지의 모든 데이터를 Exclusive-or 연산한 것입니다.