

Instruction Manual

SUNJE
Electrostatics

SIB4/4A Communication



Communication Protocol

Command Format		통신장비 → SIB4/4A Series												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	C	M	D	,	A	*	Checksum	CR	LF	

1. Data Request		통신장비 → SIB4/4A Series												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	R	E	Q	,	A	*	Checksum	CR	LF	

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	Bar Type Ionizer	A: Photo, B: Bar, C: Blower
2	Ionizer Model	1	5: SIB4 6: SIB4A	
1, 2	Broadcasting	2	ZB	제품군, 제품명 상관없이 응답
4, 5, 6	Command	3	[REQ] / RUN / STOP	Request / Run / Stop
8	Address	1	1 ~ 16	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G
9	End Code	1		
10, 11	Check Sum	2	ChecSum	
12, 13	Carriage Return, Line Feed	2		

1. Data Receive		통신장비 ← SIB4/4A Series												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	P	M	,	A	,	F	,	D	,	PV	,	NV	,
Byte	14	15	16	17	18	19	20	21	22	23	24	25		
Code	PC	,	NC	,	A/S	,	R/S	*	Checksum	CR	LF			

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	Bar Type Ionizer	A: Photo, B: Bar, C: Blower
2	Ionizer Model	1	5: SIB4 6: SIB4A	
4	Address	1	1 ~ 16	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G
6	Frequency	1	0.1,0.3,1.3,5.8,10,20,30,35,40,45,50Hz : '0' ~ '9', 'A' ~ 'C'	0.1,2,3,4,5,6,7,8,9,A,B,C
8	Duty	1	SIB4 40 ~ 100 : 'l' ~ 'd' SIB4A Not Used : }	(통신 응답값 + 40) / 2 = 실제 Duty 값 (40~70%, 0.5% 단위)
10	PV	1		
12	NV	1		
14	PC	1		
16	NC	1		
18	Alarm State	1	Normal : 0, H/V : 1	
20	Run/Stop State	1	Run : 1, Stop : 0	
21	End Code	1		
22, 23	Check Sum	2	Checksum	
24, 25	Carriage Return, Line Feed	2		

2. Control [Run]		통신장비 → SIB4/4A Series												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	P	M	,	R	U	N	,	A	*	Checksum	CR	LF	

2. No Receive		통신장비 ← SIB4/4A Series												
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3. Control [Stop]		통신장비 → SIB4/4A Series												
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Code	\$	P	M	,	S	T	P	,	A	*	Checksum	CR	LF	

3. No Receive		통신장비 ← SIB4/4A Series												
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Data Request		통신장비 → SIB4 Series												
ASCII	\$	B	5	,	R	E	Q	,	1	*	0	0	CR	LF

Data Receive		통신장비 ← SIB4 Series												
ASCII	\$	B	5	,	9	,	6	,	2	*	4	,	4	,
ASCII	4	,	4	,	0	,	1	*	Checksum	CR	LF			

Data Request		통신장비 → SIB4A Series												
ASCII	\$	B	6	,	R	E	Q	,	1	*	0	3	CR	LF

Data Receive		통신장비 ← SIB4A Series												
ASCII	\$	B	6	,	1	,	6	,	0	*	4	,	4	,
ASCII	4	,	4	,	0	,	1	*	Checksum	CR	LF			

Checksum Calculation	
\$ ~ * Calculation	
#include<stdio.h>	
void main()	
{	
char packet[] = "B5 or B6,REQ,1", cksum = 0;	
int i, size = 0;	
char cksum = 0;	
while(packet[size] != '\0') size++;	
for(i = 0; i < size; i++)	
{	
if(i == 0)	
cksum = packet[i];	
else	
cksum ^= packet[i];	
}	
printf("Request : \$B5 or B6,REQ,1*% .2X",cksum); //Checksum character send by ASCII.	
}	

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

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