

Communication Manual

SUNJE

SXC-104N

Jap

1 RS-485 Communication

1. Pin

- 24番 Pin : RS-485(+)
 - 25番 Pin : RS-485(-)
2. Communication Spec.
- Baud : 9600
 - Parity Bit : None
 - Data Bit : 8
 - Stop Bit : 1
 - ※ BaudはController Settingメニューから変更可能

2 Communication Protocol

Command Format					通信装置 → SXC-104N									
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	

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	A : Photo	Photo Type Ionizer
2	Ionizer Model	1	M : SXC-104N	
1,2	Broadcasting	2	ZB	製品群、製品名 関係なく応答
4~6	Command	3	REQ/RQT : Request, RUN/RUn : Run, STP/STn : Stop	
8	Address	1	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G	Photo : 1 ~ 16
9	End Code	1		
10, 11	Check Sum	2	Check Sum	
12, 13	Carriage Return, Line Feed	2		

1. Data Request					通信装置 → SXC-104N									
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

1.1 Data Receive					通信装置 ← SXC-104N													
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13				
ASCII	\$	P	M	,	A	,	H/C	,	H/O	,	H/A	,	Head					
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
ASCII	Run Time(1)				,	H/C	,	H/O	,	H/A	,	Head Run Time(2)						
Byte	28	29	30	31	32	33	34	35	36	37	38	39	40	41				
ASCII			,	H/C	,	H/O	,	H/A	,	Head Run Time(3)								
Byte	42	43	44	45	46	47	48	49	50	51	52	53	54	55				
ASCII	H/C	,	H/O	,	H/A	,	Head Run Time(4)					,	I/S	,				
Byte	56	57	58	59	60	61	62	63	64	65	66	67						
ASCII	R/S	,	P/S	,	A/S	,	R/S	*	Checksum	CR	LF							

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	A : Photo	Photo Type Ionizer
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G	Photo : 1 ~ 16
6	Head 1 Connect	1	1 : Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
8	Head 1 Over Time	1	0 : Normal, 1 : Abnormal	Over Time時 Abnormal
10	Head 1 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
12~16	Head 1 Run Time	5	00000 ~ 99999 Hour	
18	Head 2 Connect	1	1 : Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
20	Head 2 Over Time	1	0 : Normal, 1 : Abnormal	Over Time時 Abnormal
22	Head 2 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
24~28	Head 2 Run Time	5	00000 ~ 99999 Hour	
30	Head 3 Connect	1	1 : Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
32	Head 3 Over Time	1	0 : Normal, 1 : Abnormal	Over Time時 Abnormal
34	Head 3 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
36~40	Head 3 Run Time	5	00000 ~ 99999 Hour	
42	Head 4 Connect	1	1 : Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
44	Head 4 Over Time	1	0 : Normal, 1 : Abnormal	Over Time時 Abnormal
46	Head 4 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
48~52	Head 4 Run Time	5	00000 ~ 99999 Hour	
54	Controller Interlock State	1	1 : Normal, 0 : Abnormal	0 : Interlock Off, 1 : Interlock On
56	Controller Remote State	1	1 : On, 0 : Off	1 : Remote On, 0 : Remote Off
58	Controller Power State	1	1 : Normal, 0 : Abnormal	0 : Power Off, 1 : Power On
60	Controller Alarm State	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	Head Alarm 1個以上 発生時 Abnormal
62	Controller Run/Stop State	1	1 : Run, 0 : Stop	
63	End Code	1		
64, 65	Check Sum	2	Check Sum	
66, 67	Carriage Return, Line Feed	2		

2. Data Request					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	R	Q	T	,	A	*	Checksum		CR	LF

2.1 Data Receive					通信装置 ← SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	A	,	R	Q	T	,	H/C	,	H/O	,
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ASCII	H/A	,	H/R	,	H/V	,	H/T	,	Head Run Time(1)					,
Byte	28	29	30	31	32	33	34	35	36	37	38	39	40	41
ASCII	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,	H/T	,	Head	
Byte	42	43	44	45	46	47	48	49	50	51	52	53	54	55
ASCII	Run Time(2)			,	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,
Byte	56	57	58	59	60	61	62	63	64	65	66	67	68	69
ASCII	H/T	,	Head Run Time(3)					,	H/C	,	H/O	,	H/A	,
Byte	70	71	72	73	74	75	76	77	78	79	80	81	82	83
ASCII	H/R	,	H/V	,	H/T	,	Head Run Time(4)					,	I/S	,
Byte	84	85	86	87	88	89	90	91	92	93	94	95		
ASCII	R/S	,	P/S	,	A/S	,	R/S	*	Checksum		CR	LF		

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	A : Photo	Photo Type Ionizer
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G	Photo : 1 ~ 16
6~8	Command	3	RQT : Request	
10	Head 1 Connect	1	1: Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
12	Head 1 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
14	Head 1 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
16	Head 1 Run	1	0 : Stop, 1 : Run	
18	Head 1 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV	
20	Head 1 Type	1	0 : T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
22~26	Head 1 Run Time	5	00000 ~ 99999 Hour	
28	Head 2 Connect	1	1: Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
30	Head 2 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
32	Head 2 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
34	Head 2 Run	1	0 : Stop, 1 : Run	
36	Head 2 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV	
38	Head 2 Type	1	0 : T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
40~44	Head 2 Run Time	5	00000 ~ 99999 Hour	
46	Head 3 Connect	1	1: Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
48	Head 3 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
50	Head 3 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
52	Head 3 Run	1	0 : Stop, 1 : Run	
54	Head 3 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV	
56	Head 3 Type	1	0 : T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
58~62	Head 3 Run Time	5	00000 ~ 99999 Hour	
64	Head 4 Connect	1	1: Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期連結判断)
66	Head 4 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
68	Head 4 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0 以外 Abnormal
70	Head 4 Run	1	0 : Stop, 1 : Run	
72	Head 4 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV	
74	Head 4 Type	1	0 : T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
76~80	Head 4 Run Time	5	00000 ~ 99999 Hour	
82	Controller Interlock State	1	1 : Normal, 0 : Abnormal	0 : Interlock Off, 1 : Interlock On
84	Controller Remote State	1	1 : On, 0 : Off	1 : Remote On, 0 : Remote Off
86	Controller Power State	1	1 : Normal, 0 : Abnormal	0 : Power Off, 1 : Power On
88	Controller Alarm State	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	Head Alarm 1個以上 発生時 Abnormal
90	Controller Run/Stop State	1	1 : Run, 0 : Stop	
91	End Code	1		
92, 93	Check Sum	2	Check Sum	
94, 95	Carriage Return, Line Feed	2		

3. Run [一括制御]					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	R	U	N	,	A	*	Checksum	CR	LF	

3.1 No Receive		通信装置 ← SXC-104N											
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4. Stop [一括制御]					通信装置 → SXC-104N										
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
ASCII	\$	P	M	,	S	T	P	,	A	*	Checksum		CR	LF	

4.1 No Receive		通信装置 ← SXC-104N											
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5. Run [個別制御]					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	R	U	n	,	A	*	Checksum	CR	LF	

5.1 Data Receive					通信装置 ← SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	A	,	R	U	n	,	H/C	,	H/O	,
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ASCII	H/A	,	H/R	,	H/V	,	H/T	,	Head Run Time(1)					,
Byte	28	29	30	31	32	33	34	35	36	37	38	39	40	41
ASCII	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,	H/T	,	Head	
Byte	42	43	44	45	46	47	48	49	50	51	52	53	54	55
ASCII	Run Time(2)			,	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,
Byte	56	57	58	59	60	61	62	63	64	65	66	67	68	69
ASCII	H/T	,	Head Run Time(3)					,	H/C	,	H/O	,	H/A	,
Byte	70	71	72	73	74	75	76	77	78	79	80	81	82	83
ASCII	H/R	,	H/V	,	H/T	,	Head Run Time(4)					,	I/S	,
Byte	84	85	86	87	88	89	90	91	92	93	94	95		
ASCII	R/S	,	P/S	,	A/S	,	R/S	*	Checksum		CR	LF		

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	A : Photo	Photo Type Ionizer
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G	Photo : 1 ~ 16
6~8	Command	3	n : 1 ~ F	Page 08 例示参照
10	Head 1 Connect	1	1: Normal, 0: Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
12	Head 1 Over Time	1	0: Normal, 1: Abnormal	Over Time時 Abnormal
14	Head 1 Alarm	1	0: Normal, 1: Head Fail, 2: Over Current 3: Comm Out	0 以外 Abnormal
16	Head 1 Run	1	0: Stop, 1: Run	
18	Head 1 H/V	1	0: 5kV, 1: 10kV, 3: 15kV	
20	Head 1 Type	1	0: T/N type, 1: S type, 2: SP type(一体型), 3: SP type(交換型), 4: SD type	
22~26	Head 1 Run Time	5	00000 ~ 99999 Hour	
28	Head 2 Connect	1	1: Normal, 0: Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
30	Head 2 Over Time	1	0: Normal, 1: Abnormal	Over Time時 Abnormal
32	Head 2 Alarm	1	0: Normal, 1: Head Fail, 2: Over Current 3: Comm Out	0 以外 Abnormal
34	Head 2 Run	1	0: Stop, 1: Run	
36	Head 2 H/V	1	0: 5kV, 1: 10kV, 3: 15kV	
38	Head 2 Type	1	0: T/N type, 1: S type, 2: SP type(一体型), 3: SP type(交換型), 4: SD type	

Byte	Information	Byte	Comment	Remarks
40~44	Head 2 Run Time	5	00000 ~ 99999 Hour	
46	Head 3 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
48	Head 3 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
50	Head 3 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
52	Head 3 Run	1	0 : Stop, 1 : Run	
54	Head 3 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
56	Head 3 Type	1		
58~62	Head 3 Run Time	5	00000 ~ 99999 Hour	
64	Head 4 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
66	Head 4 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
68	Head 4 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
70	Head 4 Run	1	0 : Stop, 1 : Run	
72	Head 4 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
74	Head 4 Type	1		
76~80	Head 4 Run Time	5	00000 ~ 99999 Hour	
82	Controller Interlock State	1	1 : Normal, 0 : Abnormal	0 : Interlock Off, 1 : Interlock On
84	Controller Remote State	1	1 : On, 0 : Off	1 : Remote On, 0 : Remote Off
86	Controller Power State	1	1 : Normal, 0 : Abnormal	0 : Power Off, 1 : Power On
88	Controller Alarm State	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	Head Alarm 1個以上 発生時 Abnormal
90	Controller Run/Stop State	1	1 : Run, 0 : Stop	
91	End Code	1		
92, 93	Check Sum	2	Check Sum	
94, 95	Carriage Return, Line Feed	2		

6. Stop [個別制御]					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	S	T	n	,	A	*	Checksum	CR	LF	

6.1 Data Receive					通信装置 ← SXC-104N										
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
ASCII	\$	P	M	,	A	,	S	T	n	,	H/C	,	H/O	,	
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
ASCII	H/A	,	H/R	,	H/V	,	H/T	,	Head Run Time(1)					,	
Byte	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
ASCII	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,	H/T	,	Head		
Byte	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
ASCII	Run Time(2)				,	H/C	,	H/O	,	H/A	,	H/R	,	H/V	,
Byte	56	57	58	59	60	61	62	63	64	65	66	67	68	69	
ASCII	H/T	,	Head Run Time(3)					,	H/C	,	H/O	,	H/A	,	
Byte	70	71	72	73	74	75	76	77	78	79	80	81	82	83	
ASCII	H/R	,	H/V	,	H/T	,	Head Run Time(4)					,	I/S	,	
Byte	84	85	86	87	88	89	90	91	92	93	94	95			
ASCII	R/S	,	P/S	,	A/S	,	R/S	*	Checksum	CR	LF				

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	A : Photo	Photo Type Ionizer
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G	Photo : 1 ~ 16
6~8	Command	3	n : 1 ~ F	Page 08 例示参照
10	Head 1 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
12	Head 1 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
14	Head 1 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
16	Head 1 Run	1	0 : Stop, 1 : Run	
18	Head 1 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
20	Head 1 Type	1		
22~26	Head 1 Run Time	5	00000 ~ 99999 Hour	
28	Head 2 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
30	Head 2 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
32	Head 2 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
34	Head 2 Run	1	0 : Stop, 1 : Run	
36	Head 2 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
38	Head 2 Type	1		
40~44	Head 2 Run Time	5	00000 ~ 99999 Hour	
46	Head 3 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
48	Head 3 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
50	Head 3 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
52	Head 3 Run	1	0 : Stop, 1 : Run	
54	Head 3 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
56	Head 3 Type	1		
58~62	Head 3 Run Time	5	00000 ~ 99999 Hour	
64	Head 4 Connect	1	1: Normal, 0 : Abnormal	0: Head Not Con, 1: Head Con (初期連結判断)
66	Head 4 Over Time	1	0: Normal, 1 : Abnormal	Over Time時 Abnormal
68	Head 4 Alarm	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	0以外 Abnormal
70	Head 4 Run	1	0 : Stop, 1 : Run	
72	Head 4 H/V	1	0 : 5kV, 1 : 10kV, 3 : 15kV 0: T/N type, 1 : S type, 2 : SP type(一体型), 3: SP type(交換型), 4: SD type	
74	Head 4 Type	1		
76~80	Head 4 Run Time	5	00000 ~ 99999 Hour	
82	Controller Interlock State	1	1 : Normal, 0 : Abnormal	0 : Interlock Off, 1 : Interlock On
84	Controller Remote State	1	1 : On, 0 : Off	1 : Remote On, 0 : Remote Off
86	Controller Power State	1	1 : Normal, 0 : Abnormal	0 : Power Off, 1 : Power On
88	Controller Alarm State	1	0 : Normal, 1 : Head Fail, 2: Over Current 3 : Comm Out	Head Alarm 1個以上 発生時 Abnormal
90	Controller Run/Stop State	1	1 : Run, 0 : Stop	
91	End Code	1		
92, 93	Check Sum	2	Check Sum	
94, 95	Carriage Return, Line Feed	2		

Head 個別 & 多数制御

- 通信Protocolを利用しHead個別&多数制御が可能です。

- リモートを使用しない時だけ可能です。

- "Run", "STn"を受信すると状態情報を送信します。

通信Command			個別制御対象 (0 : 非選択, 1 : 選択)			
			Head 04	Head 03	Head 02	Head 01
R	U	1	0	0	0	1
		2	0	0	1	0
		3	0	0	1	1
		4	0	1	0	0
		5	0	1	0	1
		6	0	1	1	0
		7	0	1	1	1
		8	1	0	0	0
		9	1	0	0	1
		A	1	0	1	0
		B	1	0	1	1
		C	1	1	0	0
		D	1	1	0	1
		E	1	1	1	0
		F	1	1	1	1
		S	T	1	0	0
2	0			0	1	0
3	0			0	1	1
4	0			1	0	0
5	0			1	0	1
6	0			1	1	0
7	0			1	1	1
8	1			0	0	0
9	1			0	0	1
A	1			0	1	0
B	1			0	1	1
C	1			1	0	0
D	1			1	0	1
E	1			1	1	0
F	1			1	1	1

7. Control [Serial Number]					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	C	S	N	,	A	*	Checksum	CR	LF	

7.1 Data Receive					通信装置 ← SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	A	,	C	S	N	,	Controller -			
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ASCII	Serial Number						Spare			*	Checksum	CR		
Byte	28													
ASCII	LF													

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	Photo Type Ionizer	A : Photo
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	Photo : 1 ~ 16	1,2,3,4,5,6,7,8,9, A,B,C,D,E,F,G
6~8	Command	3	CSN : Controller Serial Number	
10~19	Controller Serial Number	10		
20~23	Spare	4		
24	End Code	1	Check Sum	
25, 26	Check Sum	2		
27, 28	Carriage Return, Line Feed	2		

8. Control [Serial Number]					通信装置 → SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	H	S	N	,	A	*	Checksum		CR	LF

8.1 Data Receive					通信装置— SXC-104N									
Byte	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASCII	\$	P	M	,	A	,	H	S	N	,				
Byte	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ASCII	Head Serial Number 1													
Byte	28	29	30	31	32	33	34	35	36	37	38	39	40	41
ASCII	Head Serial Number 2													
Byte	42	43	44	45	46	47	48	49	50	51	52	53	54	55
ASCII	Head Serial Number 3													
Byte	56	57	58	59	60	61	62	63	64	65	66	67	68	69
ASCII	Head Serial Number 4													*
Byte	70	71	72	73										
ASCII	Checksum	CR	LF											

Byte	Information	Byte	Comment	Remarks
0	Start Code	1		
1	Product Type	1	Photo Type Ionizer	A : Photo
2	Ionizer Model	1	M : SXC-104N	
4	Address	1	Photo : 1 ~ 16	1,2,3,4,5,6,7,8,9, A,B,C,D,E,F,G
6~8	Command	3	HSN : Head Serial Number	
10~23	Head Serial Number 1	11		
25~38	Head Serial Number 2	14		
40~53	Head Serial Number 3	14		
55~68	Head Serial Number 4	14		
69	End Code	1		
70, 71	Check Sum	2	Check Sum	
72, 73	Carriage Return, Line Feed	2		

* 取説作成はSXC-104N基準で作成され、SXC-102NiはHead 1,2の情報だけ送信します。

Checksum Calculation
\$ ~ * Calculation
#include<stdio,h>
void main() { char packet[] = "AM,REQ,1", cksum = 0; int i, size = 0; while(packet[size] !='W0') size++; for(i = 0 ; i < size ; i++) { if(i == 0) cksum = packet[i]; else cksum^= packet[i]; printf("packet[%d] = %c, checksum = % .2xWn", i, packet[i], cksum); } printf("Request : \$AM,REQ,1*% .2X",cksum); //Checksum character send by ASCII. }

※ Checksum検査は\$表示以後から *表示前までのすべてのデーターを Exclusive-or 演算したものです。

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