

Communication Manual

SUNJE

SXC-104N

Chi

1 RS-485 Communication

1. Pin
- 24号 Pin : RS-485(+)

-24号 Pin : RS-485(-)
2. Communication Spec.
- Baud : 9600

- Parity Bit : None

- Data Bit : 8

- Stop Bit : 1

※ Baud可在Controller Setting中更改

2 Communication Protocol

Command Format					通信设备→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	不管产品群以及产品名称如何都回应
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					通信设备→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					通信设备 ← 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 (初期链接判断)
8	Head 1 Over Time	1	0 : Normal, 1 : Abnormal	Over Time时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 (初期链接判断)
20	Head 2 Over Time	1	0 : Normal, 1 : Abnormal	Over Time时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 (初期链接判断)
32	Head 3 Over Time	1	0 : Normal, 1 : Abnormal	Over Time时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 (初期链接判断)
44	Head 4 Over Time	1	0 : Normal, 1 : Abnormal	Over Time时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	发生一个以上 Head Alarm时 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					通信设备 → 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					通信设备 ← 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 (初期链接判断)
12	Head 1 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 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(一体式), 3: SP type(可替换型), 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 (初期链接判断)
30	Head 2 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 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(一体式), 3: SP type(可替换型), 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 (初期链接判断)
48	Head 3 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 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(一体式), 3: SP type(可替换型), 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 (初期链接判断)
66	Head 4 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 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(一体式), 3: SP type(可替换型), 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	发生一个以上 Head Alarm时 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 [批量控制]					通信设备 → 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		通信设备 ← SXC-104N											
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4. Stop [批量控制]					通信设备 → 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		通信设备 ← SXC-104N											
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5. Run [个别控制]					通信设备 → 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					通信设备 — 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 参照列子
10	Head 1 Connect	1	1: Normal, 0 : Abnormal	0 : Head Not Con, 1 : Head Con (初期链接判断)
12	Head 1 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 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(一体式), 3: SP type(可替换型), 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 (初期链接判断)
30	Head 2 Over Time	1	0: Normal, 1 : Abnormal	Over Time时 Abnormal

