SR-13

RS-232C Instruction Manual

Ver.1

ar 1



Configuration and Protocol

 This equipment can perform external control with PCs and other host devices by serial communications using RS232C communication.

[RS232C communication setting]

Connecting cable	Cross cable (female terminal)
Communication baud rate	9600 bps
Parity	None
Stop bit	1 bit
Flow control	None

[Control Command]

All serial communication commands consist of ASCII strings. Each command begins with a semi-colon ";" followed by a single character address, command type, and setting value separated by a comma, followed by a <CR><LF> delimiter code. (omitted in the table below).

All commands have a fixed length. Perform zero insertion so that the specified command length is met.

(e.g.); 1, Q01, 1<CR><LF>

Leading code address (2 characters) Command type Setting value

* For the Qxx command, there is no setting value.

(Host-device \rightarrow SONIC)

Command	Content	Setting value or reply content	
	Error output	0 Check with Q command	
S00,a	Setting	a 1 Error, automatic output	
		; 1, En, 10 (n) is the channel	
		The status of channel 1 is returned.	
	Channel 1	;1,01aa	
Q01	Condition	a Solvent bottle and waste liquid bottle	
	requirement	Each reply is made.	
		See RS232C list.	
		The status of channel 2 is returned.	
	Channel 2	;1,02aa	
Q02	Condition	a Solvent bottle and waste liquid bottle	
	requirement	Each reply is made.	
		See RS232C list.	
		The status of channel 3 is returned.	
	Channel 3	;1,03aa	
Q03	Condition	a Solvent bottle and waste liquid bottle	
	requirement	Each reply is made.	
		See RS232C list.	

$(SONIC \rightarrow host device)$

Command	Content	Sent data		
ОК	Acknowledgment	Transferred when the command of command type "S" or "R" is processed normally		
E,aaa	Error transmission	a Errors related to receiving errors 10 Reception that is not in the specified format 20 Receiving outside the setting range 35 Receiving inconsistent content		

Command list

Comman	device \leftarrow SR-13	Content	
		Automatic error output setting	
;1,S00a <cr><lf></lf></cr>			
	Setting value or reply content		
a -	a 0 Check the status with the Q instruction (no output).		
		curs, see the automatic output (2) list).	
;1,Qn <c< td=""><td></td><td>The status of each channel is returned.</td></c<>		The status of each channel is returned.	
Classifi	Command	Sent data	
cation			
	;1,0n00	Less than about 10% remaining	
Solvent	;1,0n01	Less than about 25% remaining	
	;1,0n02	Less than about 50% remaining	
	;1,0n03	Less than 75% remaining	
	;1,0n04	Residual amount of about 75% or more	
	;1,0n05	Approximately 7.5 or more until full	
W.	;1,0n06	Approximately 4.5cm or more until full	
Waste liquid	;1,0n07	Approximately 1.5cm or more until full	
	;1,0n08	Approximately 1.5cm or less until full	
	;1,0n09	0 cm until full	
Comm on	;1,0n10	Sensor malfunction max. value too low	
	;1,0n12	Excessive minimum sensor malfunction	
	;1,0n13	Channel Off	
	;1,0n14	Prove malfunction (Prove cannot be identified)	
	;1,0n15	Unmeasured and under measurement	
(n) shows channel No,			

② SR-13 ← Host device (① when automatic error output is set)

Classification	Command	Sent data
Solvent	;1,En00	Less than about 25% remaining
	;1,En01	Less than about 10% remaining
Waste liquid	;1,En08	Approximately 1.5cm or less until full water
	;1,En09	Full of liquid
Common	;1,En10	Sensor malfunction max. value too low
	;1,En12	Excessive minimum sensor malfunction
(n) is the channel.		

Please contact us if you are unclear, cannot communicate, or the setting is not reflected.

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