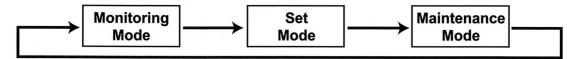
Setting Procedures

■Indicator Switch [SW3-1] Push Switch for Set Mode.



■Items [SW3-2] Mode can be selected by pushing "Items" Switch.

■UP[SW3-3] Change the setting by pushing "UP" Switch.

Each step is saved by switching to next step. (Autosave)

Before changing setting, verify that SW1 (Dipswitch), #1, #2 on switch panel undercover, is set appropriately according to the M-Alkalinity list right.

SW1,#1	SW1,#2	M-Alkalinity
OFF	OFF	UNDER 60mg/L
OFF	ON	OVER 60mg/L AND UNDER 120mg/L
ON	OFF	OVER 120mg/L AND UNDER 300mg/L
ON	ON	OVER 300mg/L AND UNDER 500mg/L

Set Items

- Date (S Date) Make sure to set the present date. (month/date/year)
- ■Time (S Time) Make sure to set the present time.
- Monitor Interval (S Intvl)

To set the interval for each monitoring. (Recommended setting example: A "S Intvl 060" indicator means monitoring is at 60 min. intervals.)

■Start & Stop for Monitoring (S Start, S Stop)

To set the monitoring period. (To set time) In order to set continuous monitoring for 24 hours, set [24:--] or set the same time for both "S Start" & "S Stop".

■Monitors only when remote auto bypass signal is OFF. (S Rte Sgl Off)

(Remote signal example: water softener regenerating signal from softener unit) Note: Set (S Rte Sgl Off) when the remote signal is not connected.

■ Monitors at remote auto bypass signal is ON. (S Rte Sgl On)

Monitors for hardness when the remote signal is ON only. (Remote signal example: water feeding signal from softener unit)

■ Remote signal delay time (S DelayTime)

In the case where the water sample is taken off after a feed water motor valve, the main unit can be set with a remote signal delay time to take the sample after the feed water motor valve has completely opened.

Failures to properly set the remote signal delay time may result in "Wash Flow F" alarm.

■ Alarm Set Point (S AlarmSet)

To set the hardness concentration at which to initiate the alarm for hardness leakage incidents. (Factory setting is 2 mg/L.)

■Retry Cycle (S Alarm Inc No.)

Amount of Cycles before the main unit determines hardness leakage as verifiable can be set by user from 1 to 3 times. In other words; How many times the unit takes a "hard" reading before responding. (Factory setting is 2.)

■Response (Alarm) Cycle (S Alarm Det No.)

Amount of failed Retry Cycles before the main unit sets of alarm can be determined by user from 1 to 3 times. In other words; How many responses before setting off the hardness leakage alarm. (Factory setting is 2.)

■Contact of remote alarm (S Rte Alarm)

Set the contact of the remote alarm. (Factory setting is "NC".)

Setting = "NO": When it is judged to be an alarm, the remote alarm output turns on.

Setting = "NC": When it is judged to be an alarm, the remote alarm output turns off.

■ Cartridge replacement date (S C Rpl 10/23/06)

The reagent cartridge replacement date ---- When replacing the reagent cartridge, do not disconnect power from the main unit to keep the date of replacement in memory. When necessary to change the date, it can be changed by pressing the "UP" switch.

■Remote signal ID (S Rte ID)

Remote signal ID is not available. Please input "00".

■Communication ID (S Comm ID)

Communication ID is not available. Please input "00". In addition, please set "OFF" of SW1(Dipswitch),#5.



Digital Display Description

F500: Back up data cleared	Data Check :F500	32
F281: Incomplete reagent injection		<u>ω</u>
F265: Insufficient pre wash .		30
Hardness is over the alarm level	Hardness Leakage	29
F137: Need cartridge replacement	New Cartridge	28
F090: Communication fault	Comm F :F090	27
F086: Insufficient water flow for wash	Wash Flow F:F086	26
C500: Data fault	Data F :C500	25
C444: Reagent injection pump fault	Pump F :C444	24
C365: Photoreceptor fault	Photo Rpt F :C365	23
C131: Thermistor fault	Thmsta F :C131	22
A000: Control board fault	SelfCheck F :A000	21
The main unit can't monitor hardness	Can't Monitor	20
Water temperture more than 50°C	High Temperature	19
During verification of the pump in its home position	Pump Start Cfm	18
Switch ON confirmed after cartridge replacement	SW ON Cfm	17
Cartridge disconnected fault	Cartridge OFF F	16
Cartridge disconnected	Cartridge OFF	15
Result:5mg/L or more	Result:>5mg/L	14
Result:between 3mg/L and 5mg/L	Result:3mg/L	13
	Result:2mg/L	12
Result:between 1mg/L and 2mg/L	Result:1mg/L	11
Result:1mg/L or less	Result:0mg/L	10
No result	Result:	9
Waiting for monitoring stage	Std-by:	ω
Monitor ON retry	Monitor ON Retry	7
Monitoring ionic concentration (Hardness)	Monitor ON	6
Self check retry	Self Check Retry	5
Self check	Self Check	4
Hardness monitor	Hardness Monitor	ω
Memory data clear	All Clear	2
ROM version	CMU Ver.DE121040	_
Description	Display	
	Monitoring Mode	Mo

14	13	12	=	7	10	9	8	7	C	3	5	4	3	2	1		Set
S Comm ID :00	S Rte ID :00	S C Rpl 10/23/06	S Rte Alarm :NC	S Rte Alarm :NO	S Alarm Det No:2	S Alarm Inc No:2	S AlarmSet 2mg/L	S DelayTime 010s	S Rte Sgl ON	S Rte Sgl OFF	S Stop 20:30	S Start 08:30	S Intvl 060min	S Time 15:28	S Date 10/23/06	Display	Set Mode
S Communication ID	S Remote signal ID	S Cartridge replacement date(m/d/y)	S Set the contact of the remote alarm :NC	S Set the contact of the remote alarm :NO	S 2nd leakage detection set alarm off	S 2 consecutive incidents set alarm off	S Alarm set at 2mg/L	S Remote singal delay time	S Monitor by remote signal on	S Monitor by remote signal off	S Finish time 20:30	S Start time 08:30	S Monitor interval 60 min	S Time 15:28	S Date (m/d/y)	Description	

S:Indicate Set Mode

M Black out record 1	M Blk Out Log1 *	39
M System error record 1	M System F Log1 *	38
M Time of reset 15:28	M RsetTime 15:28	37
M Date of reset (m/d/y)	M Rset 10/23/06	36
M DA(Green) :FF	M DA(G) :FF	35
M Transmissivity(Green) :99.9%	M T(G):99.9%	34
M AD(Green) :FFF FFF	M AD(G) :FFF FFF	33
M DA(Red) :FF	M DA(R) :FF	32
M Transmissivity(Red):99.9%	M T(R) :99.9%	31
M AD(Red) :FFF FFF	M AD(R):FFF FFF	30
M Hardness leakage 2mg/L	M Hardness:2mg/L	29
M Time of Hardness leakage 15:28	M Time 15:28	28
M Date of Hardness leakage (m/d/y)	M Date 10/23/06	27
M Hardness leakage record1	M Leakage Log1 *	26
replacement:9999	M C Edc 8888	25
M Cartridge used hours since replacement:999999	M C Hrs 999999	24
M Cartridge replacement date(m/d/y)	M C Exc 10/23/06	23
M Cartridge data	M Cartridge Dta *	22
M Error table2:11111111	M Error2:111111111	21
M Error table1:111111111	M Error1:11111111	20
M Alarm description	M Alarm Content *	19
M Select from LED wavelength table:S	M WL:S	ō
M Select from LED wavelength table:L	M WL:L	20
M Set M-alkalinity at 300mg/L to 500mg/L	M MAlkal<500mg/L	
M Set M-alkalinity at 120mg/L to 300mg/L	M MAlkal<300mg/L	
M Set M-alkalinity at 60mg/L to 120mg/L	M MAlkal<120mg/L	7
M Set M-alkalinity at 60mg/L or less	M MAlkal<60mg/L	
M Pre wash time 9.99 second	M Wash Pd 9.99S	16
M DA(Green) :FF	M DA(G) :FF	15
M Transmissivity(Green):99.9%	M T(G) :99.9%	14
M AD(Green) :FFF FFF	M AD(G) :FFF FFF	13
M DA(Red) ·FF	DA!	3 -
M Transmissivity/Dad) :00 0%	M T/P) :00 0%	10
M Water temperature :25°C	M Ihmsta :25°C	9
M Input3 1111 1111	M IN3 1111 1111	ω
M Input2 1111 1111	M IN2 1111 1111	7
M Input1 1111 1111	M IN1 1111 1111	6
M Output2 1111 1111	M OUT2 1111 1111	57
M Output1 1111 1111	M OUT1 1111 1111	4
M Input-output mode	M IN-OUT Mode *	ω
M Hardness monitor	M Hardness Mon	2
M ROM version	M ROMVerDE121040	_
Description	Display	
	Maintenance Mode	Ma

M:Indicate Maintenance Mode

Maintenance Mode display can be changed by pressing the "Items" switch. In the event a "*" appears, mode/display can be changed by pressing the "Up" switch.