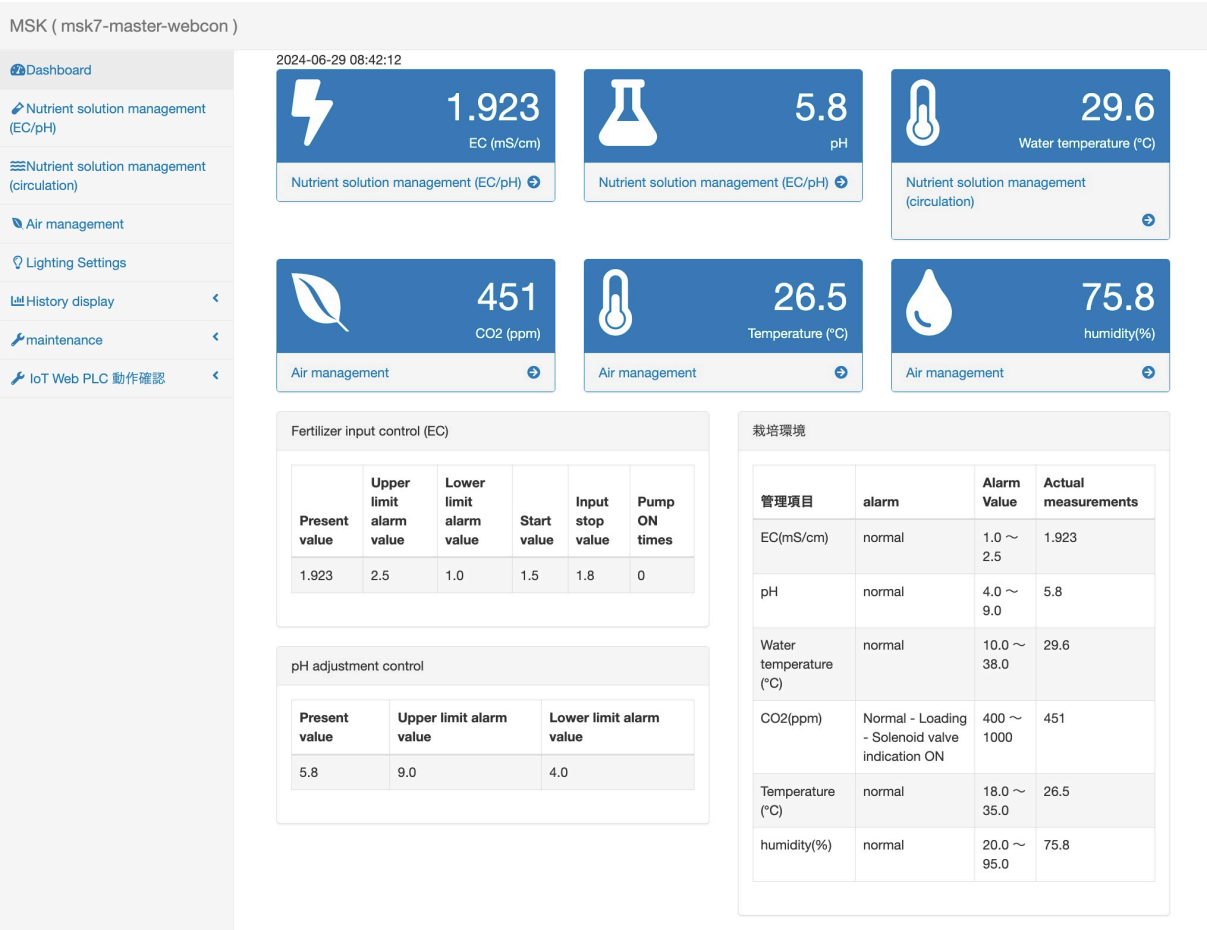


IoT WEBPLC “WEB U.I”

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Dashbord 1/4



Nutrient solution environment			
Manage projects	alarm	Setting Value	Driving situation
Circulation pump operation status	normal	Continuous Operation Mode	Continuous operation
Control water level Operation status	normal	Controlled by water level gauge output	Necessary water level for recharge
Nutrient solution level alarm status	normal	Water level gauge output triggers alarm	No detection
Make-up water Operation status	normal	Linked to upper limit of control water level	In supply
補給水量(L)	—	—	0
Drainage Operation status	normal	Drainage starts at the set time (10:00)	Standby
Displacement(L)	—	The ratio of the amount of water to be drained (20%) obtained by subtracting the amount of water drained (0.0L) from the amount of water made up (0.0L) on the previous day	0

Nutritional condition

Tidal link

Lighting A05

Lighting A04

Lighting A03

Lighting A02

Lighting A01

Dashbord 3/4

Wireless slave unit for control and alarm			
Manage projects	alarm	Alarm Value	Last received elapsed seconds
Temperature and humidity measurement reception interval (sec.)	normal	600	3
Illuminance measurement reception interval (sec.)	Unused	---	---
CO2 measurement reception interval (sec.)	normal	600	3
CO2 input reception interval (sec.)	Unused	---	---
Alarm display reception interval (sec.)	Unused	---	---
Water level measurement reception interval (sec.)	normal	600	1
Flow rate measurement (make-up water) reception interval (sec.)	Unused	---	---
Flow measurement (drainage) reception interval (sec.)	Unused	---	---
Make-up water control reception interval (sec.)	normal	600	2
Drainage control reception interval (sec.)	Unused	---	---

Manage projects	alarm	Alarm Value	Last received elapsed seconds
Circulation pump control reception interval (sec.)	Unused	---	---
Fertilizer input control reception interval (sec.)	Unused	---	---
pH adjustment control reception interval (sec.)	Unused	---	---
Lighting control 1 reception interval (sec.)	normal	600	1
Lighting control 2 reception interval (sec.)	normal	600	0
Lighting control 3 reception interval (sec.)	Unused	---	---
Lighting control 4 reception interval (sec.)	Unused	---	---
Lighting control 5 reception interval (sec.)	Unused	---	---
Lighting control 6 reception interval (sec.)	Unused	---	---
	Unused	---	---

Dashbord 4/4

Wireless slave unit for measurement and recording							
Manage projects	alarm	Alarm Value	Last received elapsed seconds	Manage projects	alarm	Alarm Value	Last received elapsed seconds
Temperature and humidity measurement 1 reception interval (sec.)				CO2 measurement 1 reception interval (sec.)			
Temperature and humidity measurement 2 reception interval (sec.)				CO2 measurement 2 reception interval (sec.)			
Temperature and humidity measurement 3 reception interval (sec.)				CO2 measurement 3 reception interval (sec.)			
Temperature and humidity measurement 4 reception interval (sec.)				CO2 measurement 4 reception interval (sec.)			
Temperature and humidity measurement 5 reception interval (sec.)				CO2 measurement 5 reception interval (sec.)			

Nutrient solution management (EC/pH)

2024-06-29 08:45:24

Present value

Sensor Data

EC(mS/cm): 1.924

pH: 5.8

Water temperature(°C): 29.6

Fertilizer input control (EC)

Loading mode: Automatic input

Conditions for stopping feeding:

Input prohibited (upper limit) /

Circulation pump stopped

Input status: Input instruction OFF

Last pump ON time:

2024-01-31 11:21:15

Last pump OFF time:

2024-01-31 11:21:18

Number of input instructions

(times/today): 0

Fertilizer tank remaining capacity (L):

7 [reset](#)

Fertilizer 2 tank remaining capacity

(L): 7 [reset](#)

Setting Value

Fertilizer input control (EC)

Input mode switching:

[Automatic input](#) (Present value)

Starting value (mS/cm): 1.5

Stop value (mS/cm): 1.8

Upper alarm value (mS/cm): 2.5

Lower alarm limit (mS/cm): 1.0

Pump ON duration (seconds): Five

Pump OFF duration (seconds): 60

Input instruction count limit

(times/day): 30

Fertilizer tank capacity (L): 10.0

Fertilizer 2 tank capacity (L): 10.0

Nutrient solution condition

Water temperature upper limit alarm
value (°C): 38.0

Water temperature lower limit alarm
value (°C): 10.0

pH adjustment control

Nutrient solution control

[Manual](#)

Fertilizer ①②Injection pump

[Manual](#)

Acid injection pump

[Manual](#)

Alkaline injection pump

(L): 7 [reset](#)

pH adjustment control

Input mode: Measurement only
Acid injection stop conditions:
Acid injection status: Input instruction OFF
Final acid pump ON time:
2023-01-01 00:00:00
Final acid pump OFF time:
2023-01-01 00:00:00
Acid injection instructions (times/today): 0
Acid tank capacity (L): Ten [reset](#)
Conditions for stopping alkali injection:
Alkaline injection status: Input instruction OFF
Alkaline final pump ON time:
2023-01-01 00:00:00
Alkaline final pump OFF time:
2023-11-13 12:23:31
Alkaline injection instructions (times/today): 0
Alkaline tank remaining capacity (L): Ten [reset](#)

pH adjustment control

Input mode switching:
[Measurement only](#) (Present value)
Control output switching: [acid](#)
(Present value)
pH upper limit alarm value (pH): 9.0
pH lower limit alarm value (pH): 4.0
Acid start value (pH): 6.6
Acid injection cutoff value (pH): 6.4
Acid pump ON duration (sec): 60
Acid pump OFF duration (seconds): 900
Acid injection limit (times/day): 30
Acid tank capacity(L): 10.0
Starting alkaline value (pH): 5.7
Alkaline supply cutoff value (pH): 5.9
Alkaline pump ON duration (seconds): 60
Alkaline pump OFF duration (seconds): 900
Alkaline injection instruction count limit (times/day): 30
Alkaline tank capacity(L): 10.0

Nutrient solution management (circulation)

Screen load date and time: 2024-06-29 08:47:55 Operation cycle: 0.01

Present value

Sensor Data

Water temperature(°C): 29.6
Water level(mm): 0

Nutrient solution circulation

Nutrient solution circulation:
Continuous Operation Mode
Maximum water level: OFF (unreachable)
Control upper limit water level: OFF (unreachable)
Control lower limit water level: OFF (unreachable)
Minimum water level: ON (reach)

Last pump ON time:
2024-06-25 07:45:59
Last pump OFF time:
2024-06-25 07:46:20

Circulation pump intermittent operation

Last pump ON command time:
1-01-01 00:00:00
Last pump OFF command time:
1-01-01 00:00:00

Setting Value

Nutrient solution circulation

Control water level confirmation delay time (sec): Five

Circulation pump intermittent operation

Day/night switching lighting

ON time (min): Ten (current value displayed)
OFF time (min): 30 (current value displayed)

Circulation pump intermittent operation

Daytime start time: 8 (minutes are fixed)
Night time slot start time: 17 (minutes are fixed)
Daytime ON time (min): 15
Daytime OFF time (min): 15
Night time ON time (min): Ten
Night time OFF time (min): 30

Nutrient solution renewal

Water only when the nutrient solution is renewed: OFF

Nutrient solution control

Manual

Circulation pump

Manual

Water supply solenoid valve

Manual

Drain solenoid valve

Nutrient solution renewal

Manual

Nutrient solution renewal

Nutrient solution renewal: Bottom drainage in progress
Last nutrient solution update start time:
2024-06-29 00:00:00
Last nutrient solution update end time:
1-01-01 00:00:00

Flow measurement (reference value accumulated over the last minute)

Make-up water (L/min.): 0.0
Drainage (L/min.): 0.0

Flow rate abnormality (red display indicates alarm)

1-01-01 00:00:00
Last pump OFF command time:
1-01-01 00:00:00

Water Supply and Drainage

Total water supply (L/today): 0
Total discharge volume (L/today): 0

Total water supply from previous day (L): 0
Total amount of drainage from the previous day (L): 0

Total water supply volume (L): 0

reset

Total displacement(L): 0

reset

Nutrient solution renewal

Water only when the nutrient solution is renewed: OFF
Add fertilizer only when the nutrient solution is renewed: OFF

Automatic Update Schedule

Start time: 00:00
Target days:

Month

fire

water

wood

Money

soil

Day

Nutrient solution condition

Water temperature upper limit alarm value (°C): 38.0
Water temperature lower limit alarm value (°C): 10.0

make-up water (L/min.): 0.0
Drainage (L/min.): 0.0

Flow rate abnormality (red display indicates alarm)

Make-up water flow rate abnormality

Drainage flow rate abnormality

IoT WEBPLC “WEB U.I”

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Air management

Screen load date and time: 2024-06-29 08:49:36 Operation cycle: 0.01

Present value

Sensor Data

CO2(ppm): 451
Temperature(°C): 26.6
Humidity(%): 75.8
Illuminance(lux): ---

CO2 concentration control

Concentration alarm status: normal
Input instruction status: Now being introduced
Solenoid valve indication status: ON

Setting Value

CO2 concentration alarm

Upper alarm value (ppm): 1000
Lower alarm limit (ppm): 400

CO2 concentration control

Input cutoff value (ppm): 1000
Starting value (ppm): 900

CO2 injection intermittent operation setting

ON Time(sec): 30
OFF Time(sec): 30

CO2 injection intermittent operation

Temperature alarm

Upper limit alarm value (°C): 35.0
Lower limit alarm value (°C): 18.0

Humidity alarm

Upper limit alarm value (%): 95.0
Lower limit alarm value (%): 20.0

Air Control

Lighting Linkage

Automatic

CO2

自動

Ventil

Light control

Tidal link

Automatic

Tidal link

Lighting A01

Tidal link

Lighting A02

Tidal link

Lighting A03

Tidal link

Lighting A04

Tidal link

Lighting A05

Tidal link

Lighting A06

Tidal link

Lighting A07

Tidal link

Lighting A08

Tidal link

Lighting A09

Tidal link

Lighting A10

Tidal link

Lighting A11

Tidal link

Lighting A12

Tidal link

Lighting A13

Tidal link

Lighting A14

Tidal link

Lighting A15

Light control settings

24-hour Schedule

Lighting A1

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A2

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A3

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A4

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A5

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A6

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

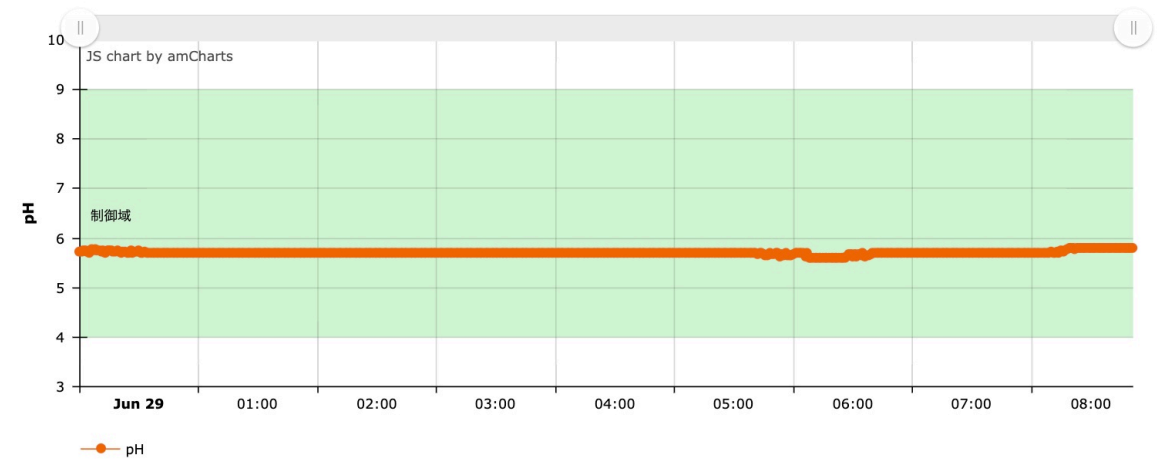
Lighting A7

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

Lighting A8

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00	15	00	15	00	15	00	15	00	15	00	15	00	15	00	15
30	45	30	45	30	45	30	45	30	45	30	45	30	45	30	45

pH history display



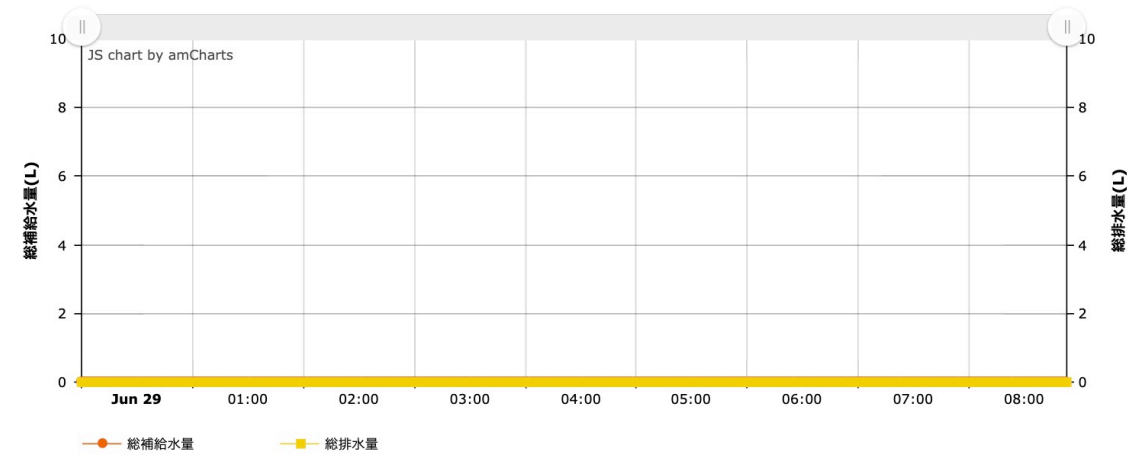
Year2024

Month6

Day29

pH History	
Ten	Display
search:	
Date and Time	pH
2024-06-29 08:51:00.000	5.8
2024-06-29 08:50:00.000	5.8
2024-06-29 08:49:00.000	5.8
2024-06-29 08:48:00.000	5.8
2024-06-29 08:47:00.000	5.8
2024-06-29 08:46:00.000	5.8
2024-06-29 08:45:00.000	5.8
2024-06-29 08:44:00.000	5.8
2024-06-29 08:43:00.000	5.8
2024-06-29 08:42:00.000	5.8

Water supply and drainage history display



Year

2024

Month

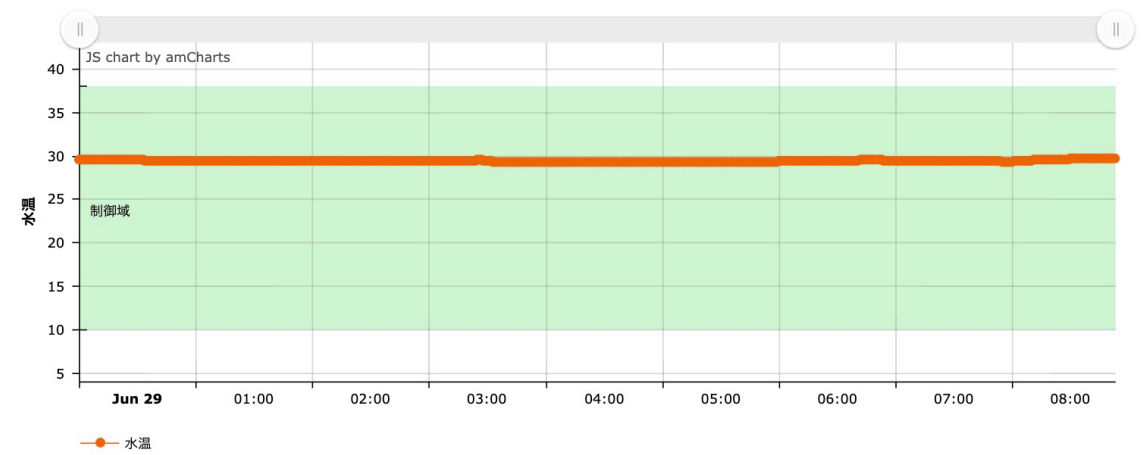
6

Day

29

Water supply and drainage history		
Ten	Display	search:
Date and Time	Total water supply volume (L)	Total displacement (L)
2024-06-29 08:52:30	0.0	0.0
2024-06-29 08:51:30	0.0	0.0
2024-06-29 08:50:30	0.0	0.0
2024-06-29 08:49:30	0.0	0.0
2024-06-29 08:48:30	0.0	0.0
2024-06-29 08:47:30	0.0	0.0
2024-06-29 08:46:30	0.0	0.0
2024-06-29 08:45:30	0.0	0.0
2024-06-29 08:44:30	0.0	0.0

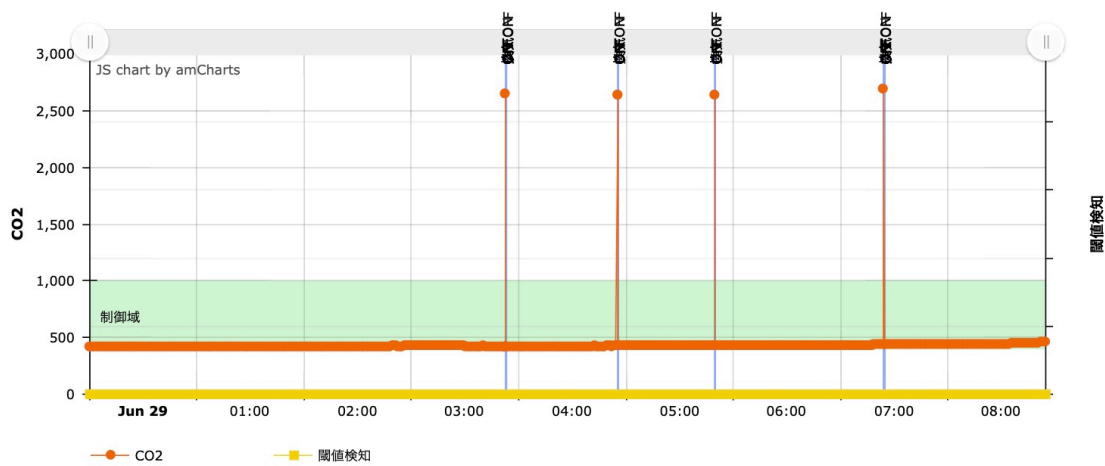
Water temperature history display



Year: 2024 Month: 6 Day: 29

Water temperature history	
Ten	Display
search:	
Date and Time	water temperature
2024-06-29 08:53:00.000	29.6
2024-06-29 08:52:00.000	29.6
2024-06-29 08:51:00.000	29.6
2024-06-29 08:50:00.000	29.6
2024-06-29 08:49:00.000	29.6
2024-06-29 08:48:00.000	29.6
2024-06-29 08:47:00.000	29.6
2024-06-29 08:46:00.000	29.6
2024-06-29 08:45:00.000	29.6

CO2 history display

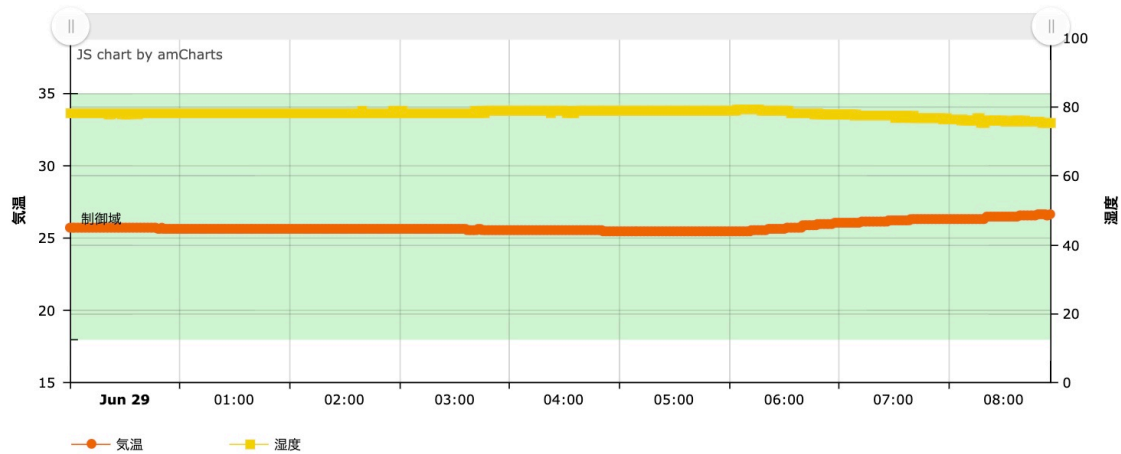


Year: 2024 Month: 6 Day: 29

CO2 History			
Ten	Display	search:	
Date and Time	CO2	1000ppm threshold detection	
2024-06-29 08:54:30	463	0	
2024-06-29 08:53:30	461	0	
2024-06-29 08:52:30	458	0	
2024-06-29 08:51:30	454	0	
2024-06-29 08:50:30	452	0	
2024-06-29 08:49:30	451	0	
2024-06-29 08:48:30	451	0	
2024-06-29 08:47:30	451	0	
2024-06-29 08:46:30	451	0	
2024-06-29 08:45:30	451	0	

Showing 1 to 10 of 599

Temperature and humidity history display



Year: 2024 Month: 6 Day: 29

Temperature and humidity history

Date and Time	temperature	Humidity
2024-06-29 08:55:30	26.6	75.3
2024-06-29 08:54:30	26.5	75.3
2024-06-29 08:53:30	26.5	75.3
2024-06-29 08:52:30	26.6	75.3
2024-06-29 08:51:30	26.6	75.3
2024-06-29 08:50:30	26.6	75.3
2024-06-29 08:19:29	26.3	75.6
2024-06-29 08:18:29	26.3	75.6
2024-06-29 08:17:29	26.3	75.6
2024-06-29 08:49:30	26.6	75.8

Showing 1 to 10 of 536

System setting

General

System name: msk7-master-webcon
Water supply stop mode during drainage: ON
Ignore Lowest Water Level Mode: ON
Automatic nutrient solution renewal mode: ON
Circulation pump ON mode during drainage: OFF
Wireless client communication interval error: 600

Modbus/TCP Sensors

IP Address: 0.0.0.0
Water level register: 2
Make-up water flow register: 18
Drain flow register: 34

(If it is unused, enter "0.0.0.0" in the IP address.)

Water Level Sensor

Maximum water level (mm): 100
Control upper water level (mm): 90
Control lower limit water level(mm): 80
Minimum water level (mm): 50

Flow Measurement Multiplier

補給水(mL/pulse): 1000.0
Drainage (mL/pulse): 1000.0
Fertilizer 1(mL/sec.): 3.0
Fertilizer 2 (mL/sec.): 3.0
Acid (mL/sec.): 3.0
Alkaline (mL/sec.): 3.0

Control/alarm wireless slave unit SID

Temperature and humidity measurement (for alarm): 82023408 (186: 2024-06-29 08:57:20)
Illuminance measurement: 00000000 (not received)
CO2 measurement (for control): 82023408 (186: 2024-06-29 08:57:20)
CO2 input: 00000000 (not received)
Alarm display: 00000000 (not received)
Water level measurement: 82024A8B (75: 2024-06-29 08:57:20)
Flow measurement (make-up water): 00000000 (not received)
Flow measurement (wastewater): 00000000 (not received)
Makeup water control: 8202785F (153: 2024-06-29 08:57:20)
Drainage control: 00000000 (not received)
Circulation pump control: 00000000 (not received)
Fertilizer input control: 00000000 (not received)
pH adjustment control: 00000000 (not received)
Lighting Control 1: 82025938 (147: 2024-06-29 08:57:20)
Lighting Control 2: 82022CCC (90: 2024-06-29 08:57:20)
Lighting control 3: 00000000 (not received)
Lighting control 4: 00000000 (not received)
Lighting control 5: 00000000 (not received)
Lighting control 6: 00000000 (not received)

(If unused, enter "00000000")

SID for measurement and recording

Temperature and humidity measurement 1: 00000000 (not received)
Temperature and humidity measurement 2: 00000000 (not received)
Temperature and humidity measurement 3: 00000000 (not received)
Temperature and humidity measurement 4: 00000000 (not received)
Temperature and humidity measurement 5: 00000000 (not received)
CO2 measurement 1: 00000000 (not received)
CO2 measurement 2: 00000000 (not received)
CO2 measurement 3: 00000000 (not received)
CO2 Measurement 4: 00000000 (not received)
CO2 Measurement 5: 00000000 (not received)

(If unused, enter "00000000")

Alert notification email sending settings

From address: msk5alert@mimamori.cloud
SMTP authentication account name: msk5alert@mimamori.cloud
SMTP authentication password: cKxbsY93
SMTP sending server name: mail.mimamori.cloud
SMTP Outgoing Port Number: 587

Tide data setting

Tide data

Japan Meteorological Agency Tide Table (Text Data Version):

71 55 40 26 20 24 36 53 75 99116121117112106100 96 96 98 99 99 99 99 9124 1 1KB1058121212010099999999999999 4 6 201619
9599999999999999
79 66 55 44 36 35 42 53 68 87105115116112108102 96 92 91 90 88 88 89 8824 1 2KB11361162217 9099999999999999 436 342033
8899999999999999
82 74 66 59 52 49 62 59 69 82 96108113111108104 98 91 86 82 78 76 77 8024 1 3KB12111132337 8099999999999999 5 3 492113

Additional Time (Minutes):

30

keep

Analysis result

Location symbol: KB
Period: 2024-01-01 to 2024-12-30
Today's lighting control: [00:54 ON] [08:27 OFF] [12:52 ON] [18:52 OFF] -> [00:47 ON] [08:34 OFF] [12:45 ON] [18:59 OFF]
Analysis result: OK

Alarm notification settings

Alert notification destination

email address:

keep

Calibration Settings

Calibration start confirmation

We will now calibrate the sensor. Is this OK?

cancel

Start

Calibration Settings

Target Selection

Calibration targets:

☒ pH

☐ EC

☐ water temperature

select