

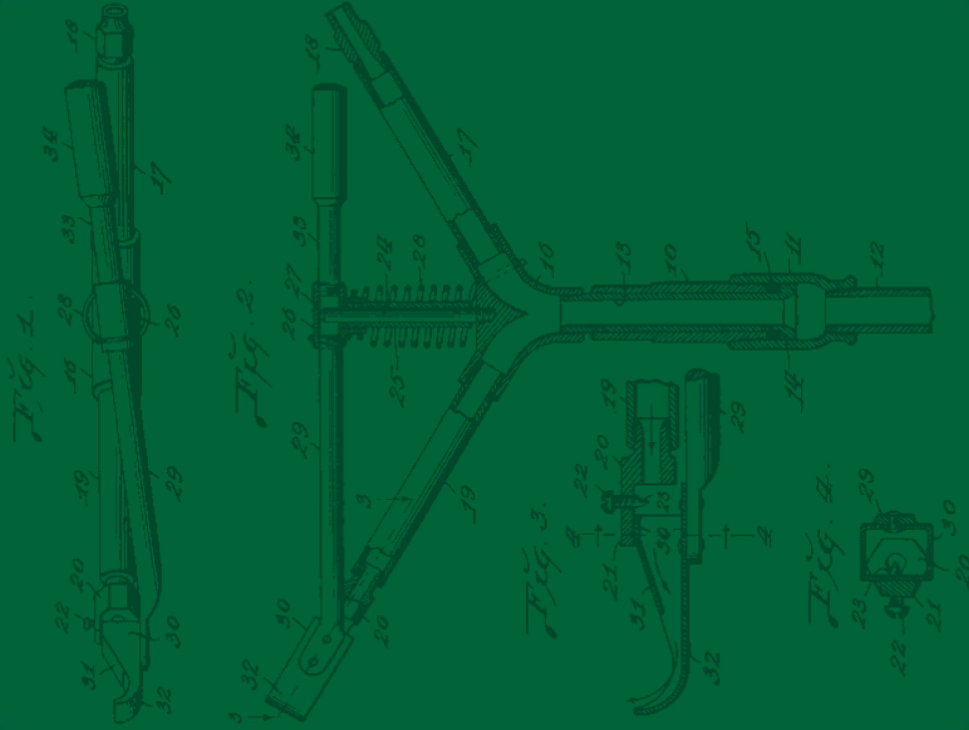
April 16, 1935.

1,997,901

O. H. ENGLEHART

WATER SPRINKLER

Filed Dec. 18, 1933



INVENTOR,
ORTON H. ENGLEHART.
By *Meritt P. Smith* ATT'Y.

RAIN BIRD



IQ4 – ESP-LXME2 Setu

The Intelligent Use of Water™

Leadership · Education ·

IQ4 – ESP-LXME2

The ESP-LXME2 controller is a new “traditionally wired” controller for Rain Bird. It can connect to the IQ4 Cloud system for full central control functionality.

- Works with IQ4-Cloud software (Not compatible with IQ3)
- Contains 40 programs
- Allows two Master Valves (one full MV and one NC/Pump Start functionality)
- Programs like the ESP-LXME controller
- Currently is in Field Test and requires authorization to work with IQ4-Cloud

IQ4 - ESP-LXME2

[Activity](#)
[Controllers](#)
[Programs](#)
[Reports](#)
[System Setup](#)
[Playground](#)

4
 4
 0

← ESP-LXME2 - Rick's Desk

Edit
 Sync
 Reverse
 More

Controller Settings

Name
ESP-LXME2 - Rick's Desk

Controller Type
LXME2

iQNet Type
Direct Satellite

SIM Expires
-

Manual Ops
 Programs
 Stations
 Master Valves
 Sensors

☐	#	Name	Stations	Status	Start	Water Days
☐	1	Program 1	4	-	4:00 AM	Su MT WTh
☐	2	Program 2	4	-	2:00 AM	Su MT WTh
☐	3	Program 3	4	-	5:00 AM	Su MT WTh
☐	4	Program 4	4	-	6:00 AM	Su MT WTh
☐	5	Program 5	4	-	3:00 AM	Su MT WTh
☐	6	Program 6	4	-	1:00 AM	Su MT WTh
☐	7	Program 7	-	-	-	-
☐	8	Program 8	-	-	-	-
☐	9	Program 9	-	-	-	-
☐	10	Program 10	-	-	-	-
☐	11	Program 11	-	-	-	-
☐	12	Program 12	-	-	-	-
☐	13	Program 13	-	-	-	-

Rain Bird Dashboard > Controllers > ESP-LXME2 - Rick's Desk

ESP-LXME2 with IQ4

Users with existing IQ4 Account

IQ4 - ESP-LXME2

Add a controller

- Controller page -> click on orange circle with + sign to add the controller

CONTROLLERS												
Edit	Log	Sync	Revers	Stop	More	Name	Site	Last Synchronized	Last Log Retrieve			
	Status					Type	Stations Programmed					
☐						ESP-LXD - Client	Malikin Residence - Test Controller	35 days ago	11 days ago	LXD	10	LXD
☐						ESP-LXME - Client	Malikin Residence - Test Controller	35 days ago	10 days ago	LXME	10	LX-IVM
☐						ESP-LXME2 Server	Malikin Residence - Test Controller	34 days ago	34 days ago	LXME2	20	LX-IVM Pro
☐						ESP-LXME2 Test Controller #2	Malikin Residence - Test Controller	13 days ago	13 days ago	LXME2	24	LXME
☐						Malikin Residence - Test Controller	Malikin Residence - Test Controller	14 hours ago	12 minutes ago	LXME	10	LXME2
☐						ESP LXD Test Controller - PM	Testing Controllers	216 days ago	195 days ago	LXD	0	
☐						ESP LXIVM PRO Test Controller - PM	Testing Controllers	222 days ago	195 days ago	LX-IVM Pro	6	4
☐						ESP LXME Test Controller	Testing Controllers	216 days ago	216 days ago	LXME	0	0
☐						ESP-LXME2 - Rick's Desk	Testing Controllers	18 days ago	3 days ago	LXME2	24	6

IQ4 – ESP-LXME2

Add a controller – Edit settings

- Add Controller page -> enter settings
- Click on Save



The screenshot shows a web form titled 'ADD CONTROLLER' for an 'LXME2' device. The form contains several fields and a checkbox. A green arrow points from the 'SAVE' button to the 'CANCEL' button.

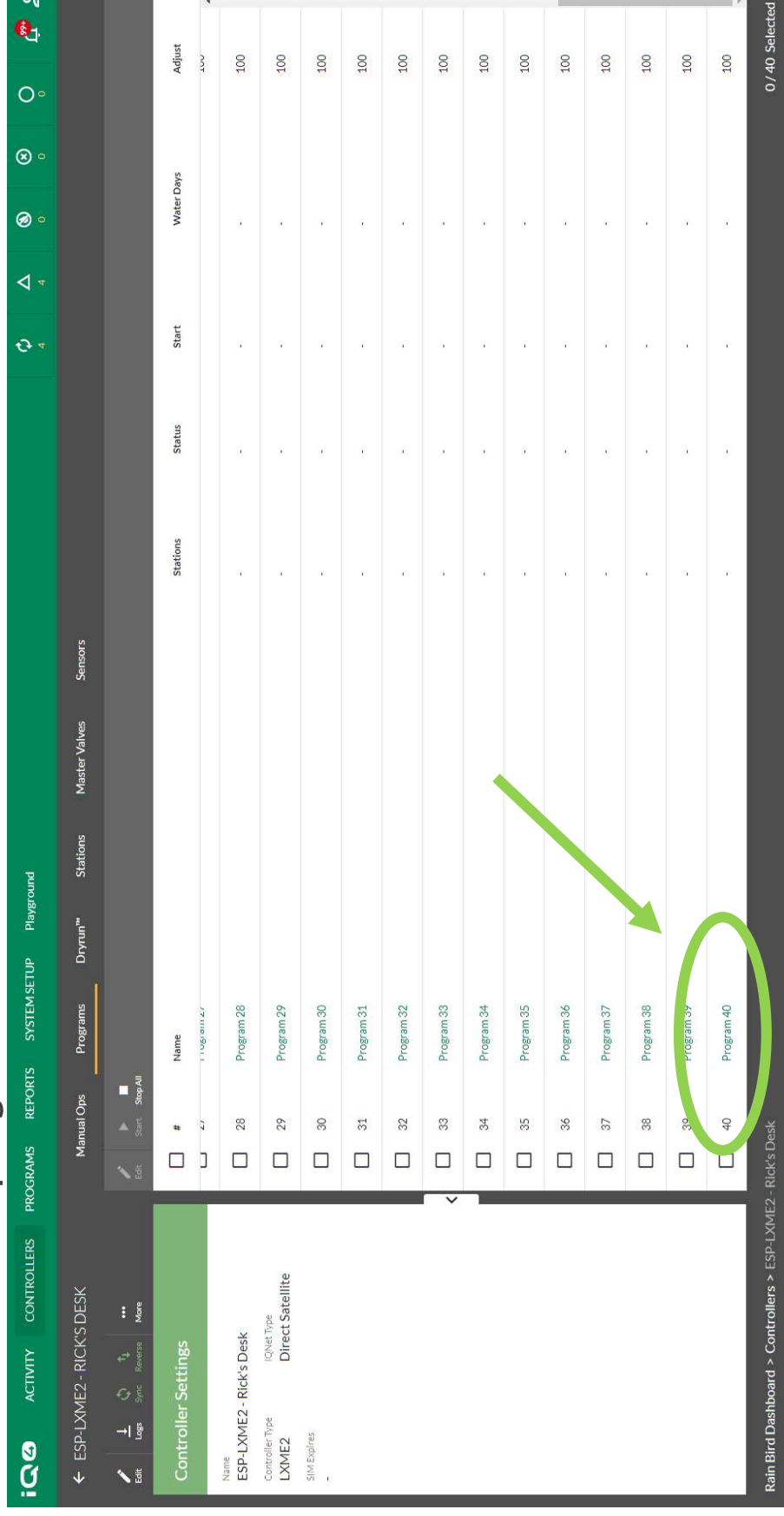
Field	Value
Name *	ESP-LXME2
Site *	Testing Controllers
IQNet Type *	Direct Satellite
Connection Type	IP Connection
IP Address *	10.10.10.100
Port *	50005

☒ Retrieve Controller Programs & Settings now

[CANCEL](#) [SAVE](#)

IQ4 – ESP-LXME2

- All programming/scheduling is identical to the ESP-LXME controller except
– Programs – There are 40 programs



The screenshot displays the Rain Bird Dashboard interface for the ESP-LXME2 controller. The top navigation bar includes tabs for Activity, Controllers, Programs, Reports, System Setup, Playground, Manual Ops, Programs, Dryrun™, Stations, Master Valves, Sensors, and Adjust. The 'Programs' tab is selected, showing a list of 40 programs. A green arrow points to the 'Program 39' row, which is circled in green. The 'Program 39' row is highlighted in green, indicating it is the selected program.

#	Name	Status	Start	Water Days	Adjust
28	Program 28	-	-	-	100
29	Program 29	-	-	-	100
30	Program 30	-	-	-	100
31	Program 31	-	-	-	100
32	Program 32	-	-	-	100
33	Program 33	-	-	-	100
34	Program 34	-	-	-	100
35	Program 35	-	-	-	100
36	Program 36	-	-	-	100
37	Program 37	-	-	-	100
38	Program 38	-	-	-	100
39	Program 39	-	-	-	100
40	Program 40	-	-	-	100

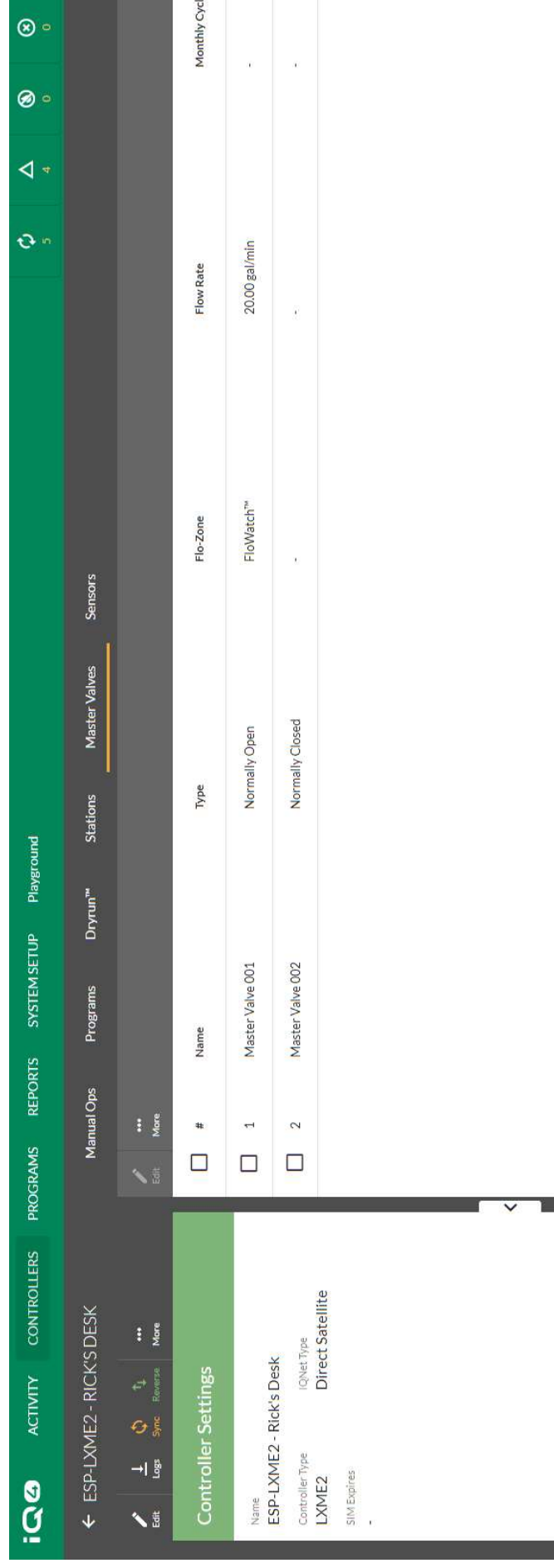
Controller Settings

Name: ESP-LXME2 - Rick's Desk
Controller Type: LXME2
IQNet Type: Direct Satellite
SIM Engines: -

Rain Bird Dashboard > Controllers > ESP-LXME2 - Rick's Desk

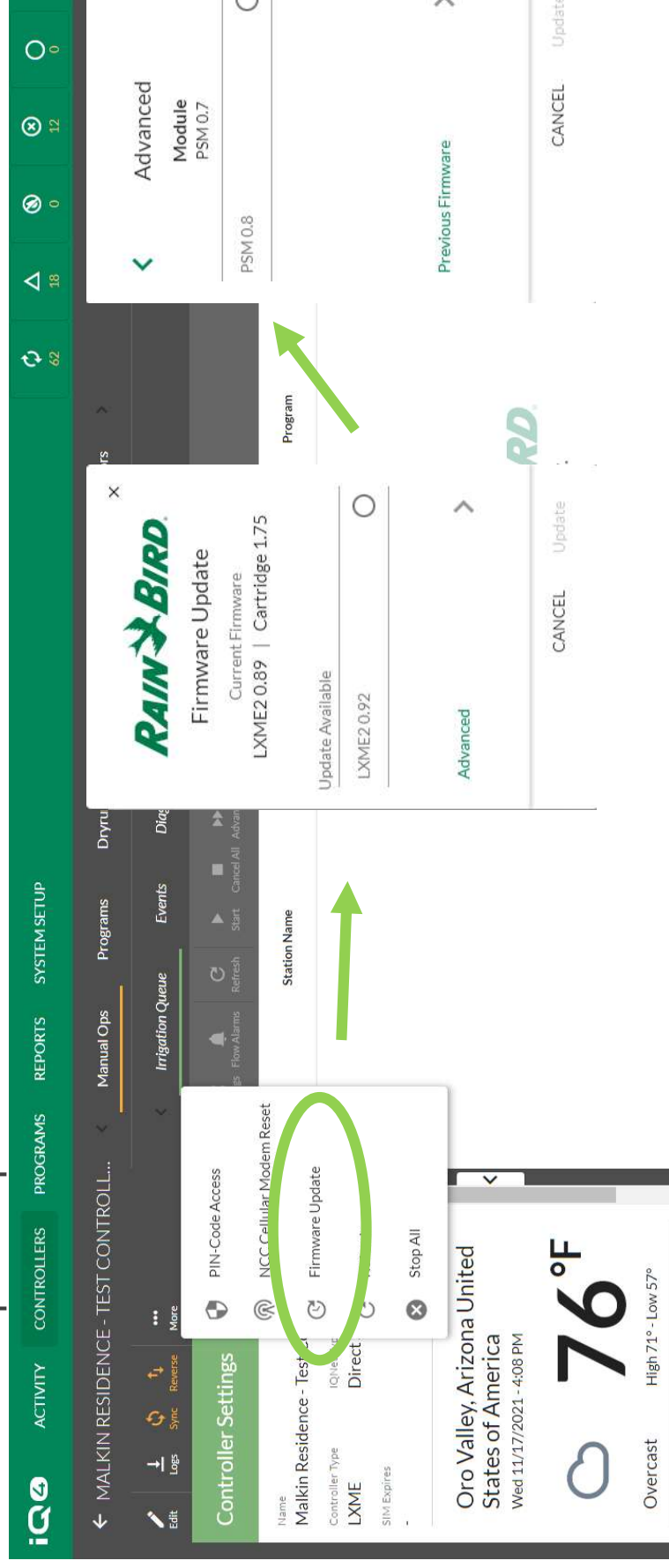
IQ4 – ESP-LXME2

- All programming/scheduling is identical to the ESP-LXME controller except – Master Valves – There are two master valves
 - MV1 is a fully functional MV with setting for Normally Closed or Normally Closed
 - MV2 is setup as a NC MV/Pump Start operating as a NC master valve



IQ4 – ESP-LXME2

- Updating ESP-LXME2 Firmware:
 - There are three items to update – Front Panel, Output module and NCC cartridge
 - To update the firmware, click on the More button above Controller Settings -> select the Update button. A list of required updates will be shown.



ESP-LXME2 with IQ4

Users without existing IQ4 Account

Registration

- **Registration.** Enter url:
- 1. <https://www.rainbird.com/products/iq4>

IQ4 Access for PC



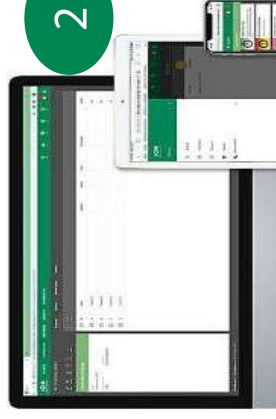
Click IQ4 Registration

IQ4

Modular Multi-Site Central Control

The IQ4 Platform offers state-of-the-art monitoring, programming and control features in an easy to learn user interface. IQ4 provides advanced water management features saving money and time. IQ4 is available in a Cloud-based version.

2



3

Terms and Conditions page



Welcome to Rain Bird IQ Cloud.

Before creating your IQ Cloud Login, please read this License Agreement, and scroll down to the bottom where you can **Accept the Terms of this License Agreement**.

IQ Cloud Software as a Service Agreement of Rain Bird Corporation

You must agree to the Terms of Service.

Registration

1

rainbird.com/products/IQ4



IQ4

Modular Multi-Site Central Control

The IQ4 Platform offers state-of-the-art monitoring, programming and control features in an easy to learn user interface. IQ4 provides advanced water management features saving money and time. IQ4 is available in a Cloud-based version.



After registration
you will click IQ4
access

2

IQ4 Access for Mobile Device



Username

Password

Forgot your password?
☐ Remember me

3

Click to Create
Account.

Registration

Select ACCEPT for Terms and Conditions

4

5

New Account

The screenshot shows the 'Registration' form for IQ4. It is divided into three main sections: 'Company Information', 'Account Information', and 'Username & Password'. The 'Company Information' section includes fields for Company Name, Address, City, State, Postal Code, Country (a dropdown menu), and Company Time Zone (a dropdown menu). The 'Account Information' section includes fields for Contact Name, Phone Number, GSP Number, Email, and Password. The 'Username & Password' section includes fields for User Name and Confirm Password. A green box highlights the 'REGISTER' button at the bottom right of the form.

Registration

- Select either

5. Create New Account

6. (Optional) Existing User (IQ3 User to transfer to IQ4)

17. **Survival.** Sections 2, 6, 8, 10, 11, 14 and 16 of this Agreement shall survive any termination or expiration of this Agreement. If one or more of the provisions of this Agreement for any reason shall be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision of this Agreement and this Agreement shall be construed as if such invalid, illegal or unenforceable provisions had never been contained in this Agreement.

18. **Waiver.** No waiver of any provision of this Agreement or any attachment shall be effective unless it is in writing and signed by the party against which it is sought to be enforced.

19. **Force Majeure.** Neither party will be deemed to be in default hereunder, or will be liable to the other, for failure to perform any of its obligations under this Agreement for any period and to the extent that such failure results from any event or circumstance beyond that party's reasonable control, including acts or omissions of the other party or third parties, natural disasters, riots, war, civil disorder, court orders, acts or regulations of governmental bodies, labor disputes or failures or fluctuations in electrical power, heat, light, air conditioning or telecommunications equipment or lines, or other equipment failure.

20. **Communication Opt-In.** By checking the following box and providing your contact information, you consent to receive [emails, updates, and other communications] related to [Rain Bird's products and services]. If at any time you wish to opt out of future communications please request so by emailing icloudsupport@rainbird.com

Click the checkbox to accept the terms of the License Agreement:

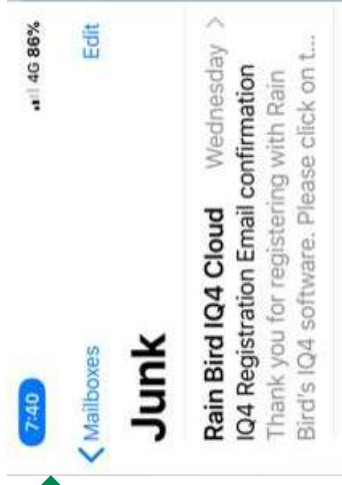
☒ I Accept License

6 (Optional)

Existing users

The screenshot shows the 'IQ4 Cloud Registration' form. It has two main sections: 'Existing Users' and 'New user registration'. The 'Existing Users' section has a text input field for 'Transfer your IQ3 data into IQ4'. The 'New user registration' section has fields for 'IQ3 User Name' and 'IQ3 User Password'. A green box highlights the 'TRANSFER' button at the bottom right of the form.

E-mail Confirmation



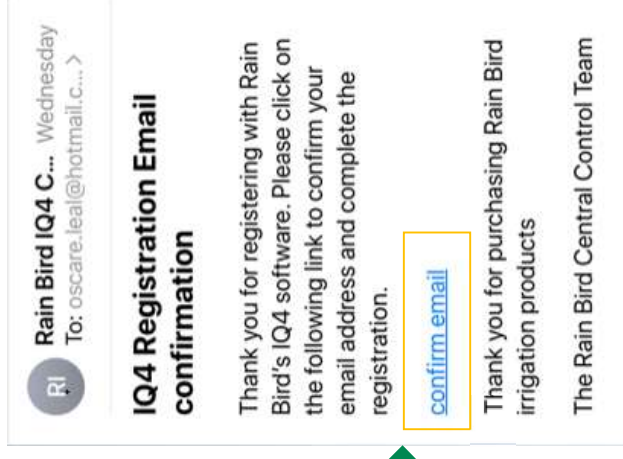
7

Please review
E-mail confirmation at
Inbox or junk

8

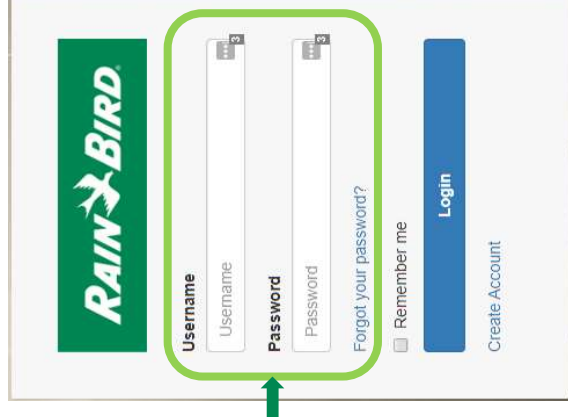


You will see this
screenshot and Click



Once E-mail is located
Click confirm email

9



System is ready
for Login access
User name &
Password

IQ4 - ESP-LXME2

Add a controller

- Controller page -> click on orange circle with + sign to add the controller

CONTROLLERS												
Edit	Log	Sync	Revers	Stop	More	Name	Site	Last Synchronized	Last Log Retrieve			
	Status					Type	Stations Programmed					
☐						ESP-LXD - Client	Malikin Residence - Test Controller	35 days ago	11 days ago	LXD	10	LXD
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☐						ESP-LXME2 - Rick's Desk	Testing Controllers	18 days ago	3 days ago	LXME2	24	6

IQ4 – ESP-LXME2

Add a controller – Edit settings

- Add Controller page -> enter settings
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The screenshot shows a web form titled 'ADD CONTROLLER' for the device 'LXME2'. The form contains several fields and a checkbox. A green arrow points from the 'SAVE' button to the 'CANCEL' button.

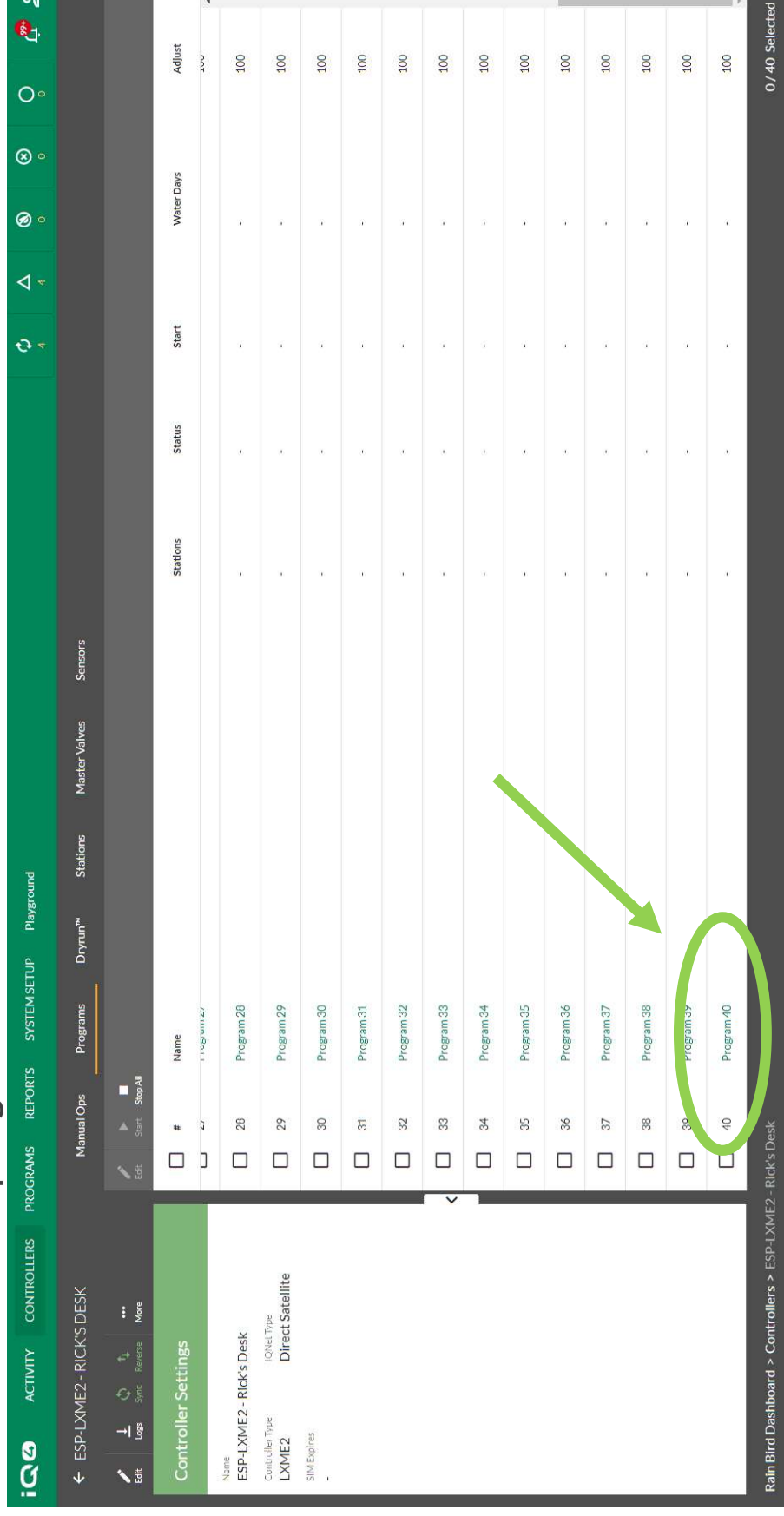
Field	Value
Name *	ESP-LXME2
Site *	Testing Controllers
IQNet Type *	Direct Satellite
Connection Type	IP Connection
IP Address *	10.10.10.100
Port *	50005

☒ Retrieve Controller Programs & Settings now

[CANCEL](#) [SAVE](#)

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The screenshot displays the Rain Bird Dashboard interface for the ESP-LXME2 controller. The top navigation bar includes tabs for Activity, Controllers, Programs, Reports, System Setup, Playground, Manual Ops, Programs, Dryrun™, Stations, Master Valves, Sensors, and Adjust. The 'Programs' tab is selected, showing a list of 40 programs. A green arrow points to the 'Program 39' row, which is circled in green. The 'Program 39' row is highlighted in green, indicating it is the selected program.

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34	Program 34	-	-	-	100
35	Program 35	-	-	-	100
36	Program 36	-	-	-	100
37	Program 37	-	-	-	100
38	Program 38	-	-	-	100
39	Program 39	-	-	-	100
40	Program 40	-	-	-	100

Controller Settings

Name: ESP-LXME2 - Rick's Desk
Controller Type: LXME2
IQNet Type: Direct Satellite
SIM Engines: -

Rain Bird Dashboard > Controllers > ESP-LXME2 - Rick's Desk

IQ4 – ESP-LXME2

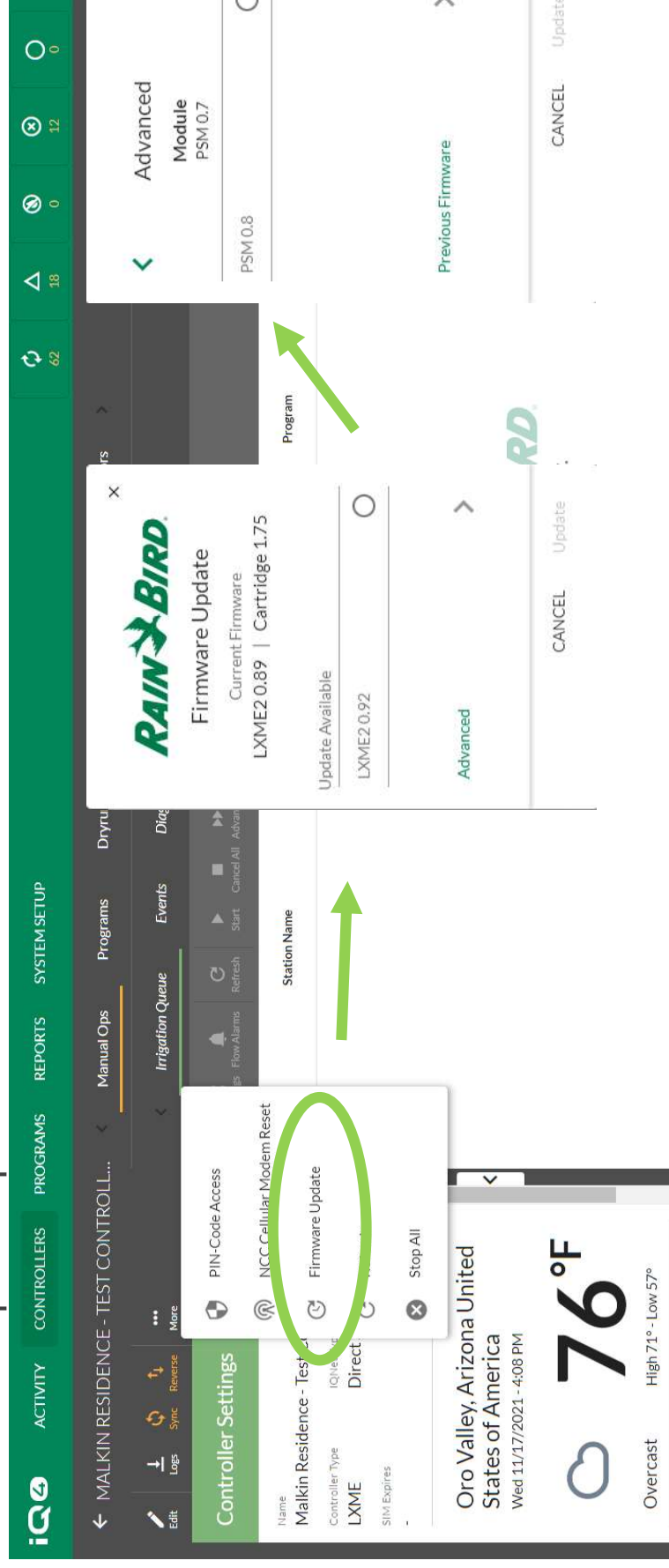
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The screenshot displays the IQ4 ESP-LXME2 - Rick's Desk interface. The top navigation bar includes tabs for ACTIVITY, CONTROLLERS, PROGRAMS, REPORTS, SYSTEM SETUP, Playground, Manual Ops, Programs, Dryrun™, Stations, Master Valves (selected), and Sensors. Below the navigation bar, the 'Master Valves' section is active, showing a table of two master valves. The table has columns for Name, #, Type, Flo-Zone, Flow Rate, and Monthly Cycle. The first valve is 'Master Valve 001' with a type of 'Normally Open' and a flow rate of '20.00 gal/min'. The second valve is 'Master Valve 002' with a type of 'Normally Closed' and a flow rate of '-'. The interface also shows a 'Controller Settings' panel on the left with fields for Name (ESP-LXME2 - Rick's Desk), Controller Type (LXME2), and IQNet Type (Direct Satellite).

Name	#	Type	Flo-Zone	Flow Rate	Monthly Cycle
Master Valve 001	1	Normally Open	FloWatch™	20.00 gal/min	-
Master Valve 002	2	Normally Closed	-	-	-

IQ4 – ESP-LXME2

- Updating ESP-LXME2 Firmware:
 - There are three items to update – Front Panel, Output module and NCC cartridge
 - To update the firmware, click on the More button above Controller Settings -> select the Update button. A list of required updates will be shown.



Support Questions

Support Questions

For support of the ESP-LXME2 controller:

Doug Closter – dcloster@rainbird.com

For support of IQ4:

Rick Malkin – rmalkin@rainbird.com

