



Introduction to New Commercial Products

The Intelligent Use of Water.™

Take Control



New COM Products!

iq4

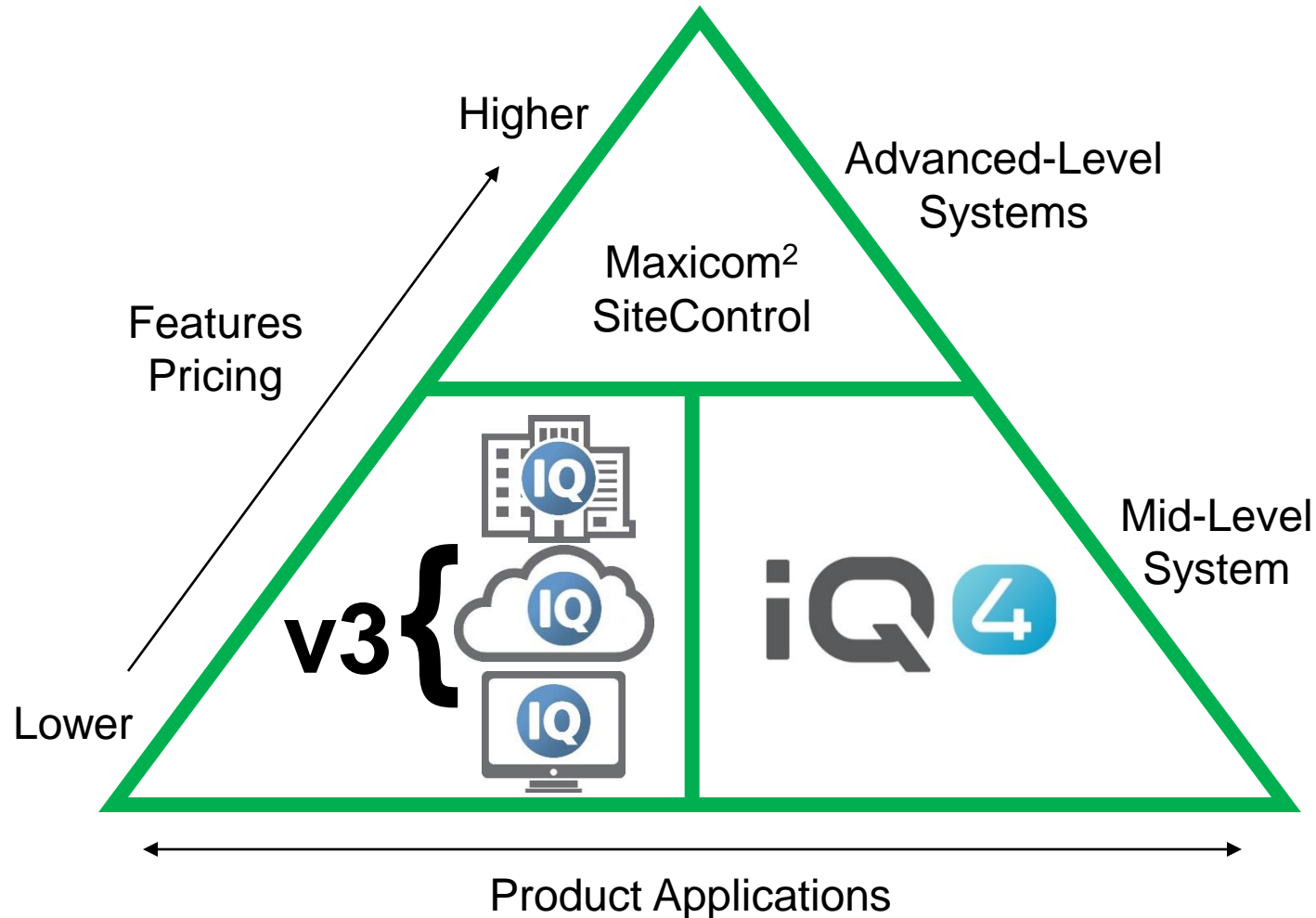
IQ4 Central Control



ESP LX-IVM Controller

iq4

Rain Bird Central Control Family



IQ4→4 Things to Know

- **Easy setup and access – 100% Web Browser Based → No more Remote Desktop**
 - Easy upgrade from IQ3
 - No time needed to train users
- **Complete control with mobile device**
 - Reporting and text notifications on phones
- **New features simplify programming and management of controllers**
- **Faster**

Edit Program

A 5 Minute Test PGM

Program Adjust Method

- None
- Site Seasonal Adjust
- Weather Source ET

Delay Between Stations

00:00 mm:ss

Water Window

Off Off

Total duration: 0 hr 0 min

Max. Program SimulStations

Irrigation 1

Watering Day Cycle

Custom

Waters on selected days of the week.

Start Times

- 1 Off
- 2 Off
- 3 Off
- 4 Off
- 5 Off
- 6 Off
- 7 Off
- 8 Off

Add Start Time

Remove Start Time...

Select Days To Start This Program

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

OK

Cancel

Program Dry Run Manual

A 5 Minute

Watering Day Cycle

Requested Start Time

Projected Start Time

Projected End Time

Update

Water Window

Use ET Adjust

Program Adjust

Start Time

100

Run

#	Station Name	Base
01	3500 Series - 1.5 Nozzle	
02	Hunter PGJ - 1.5 Nozzle	
03	Hunter ProSpray / MPRotato	
04	5004+MPR - 30G Nozzle	
05	5004+ - 3.0 Nozzle	00:01:00
06	5004+PRS - 3.0 Nozzle	00:01:00
07	Hunter PGP ADJ - #7 (3gpm)	
08	Hunter I20 - #3 (3gpm) Nozz	
09	Falcon SS HS - 10.0 Nozzle	
10	Hunter I25 - 10.0 Nozzle	
11	8005 SS NP - 26.0 Nozzle	
12	Hunter I40 - 10.0 Nozzle	
13	Station 013	
14	Station 014	
15	Station 015	
16	Station 016	
17	Station 017	
18	Station 018	

FZ	Sensor	Cycle	Soak
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		
1	✓		

OK

Cancel

New Features

- **Reduce time spent drilling down to each controller program and group edits. Build programs faster with station tags**
- **No need to set sync and log retrieval times**
 - Automatic synchronization outside the water window
 - IQ4 figures out when to perform synchronizations and log retrievals
 - Synchronization and log retrievals will not interrupt irrigation
- **Simple ET**
 - ET Programming without a complicated setup
 - Uses localized weather source or IQ Internet Weather
 - Provides daily ET adjustment of run times
 - Works like LNK-WIFI
- **Text Message Notifications & High Quality Reports**

IQ4 Controllers Screen



ACTIVITY

CONTROLLERS

PROGRAMS

REPORTS

SYSTEM SETUP



0



2



0



0



0



49



CONTROLLERS

Select Site



Edit



Logs



Sync



Reverse



Stop



Delete



More



<input type="checkbox"/>	Status	Name	Site	Type	Stations Programmed	Programs Used
<input type="checkbox"/>		LXD with Flow	Flow Sites	LXD	14	1
<input type="checkbox"/>		LXME with Flow	Flow Sites	LXME	26	2
<input type="checkbox"/>		LX-IVM PRO 4G	Office IVM	LX-IVM Pro	1	1
<input type="checkbox"/>		Brown Test	Office LXME	LXME	1	2

Dashboard > Controllers

0 / 4 Selected

IQ4 Controller Program Screen



ACTIVITY

CONTROLLERS

PROGRAMS

REPORTS

SYSTEM SETUP

0

2

0

0

0

49



PROGRAMS

Select Site

Edit Start

Select Items to Batch Edit

- Program Adjust
- Delay Between Stations
- Start Days

CANCEL DONE

<input type="checkbox"/>	#	Name	Site	Status	Start	Water Days	Adjust		
<input type="checkbox"/>	A	Program A	Flow Sites		12:00 AM	Su M T W Th F S	100		
<input type="checkbox"/>	B	Program B	Flow Sites		-	Su M T W Th F S	100		
<input type="checkbox"/>	C	Program C	Flow Sites		-	-	100		
<input type="checkbox"/>	D	Program D	Flow Sites		-	-	100		
<input type="checkbox"/>	A	Program A	Flow Sites		4:30 AM	Su Th	100		
<input type="checkbox"/>	B	Program B	Flow Sites	LXME with Flow	4	-	6:15 AM	Su M T W Th F S	100
<input type="checkbox"/>	C	Program C	Flow Sites	LXME with Flow	-	-	-	-	100

Dashboard > Programs

0 / 52 Selected

Edit Program Screen

The screenshot displays the 'Edit Program Screen' in the iQ4 application. A modal window titled 'Add Stations' is open, showing a list of stations with checkboxes. The 'Landscape' and 'Sprinkler' options are highlighted with red boxes. In the left sidebar, the 'Edit' button is also highlighted with a red box. The bottom right of the modal shows '0/7 Selected'.

<input type="checkbox"/>	#	Name	Landscape	Sprinkler
<input type="checkbox"/>	8	Station 008		
<input type="checkbox"/>	9	Station 009		
<input type="checkbox"/>	10	Station 010		
<input type="checkbox"/>	11	Station 011		
<input type="checkbox"/>	12	Station 012		
<input type="checkbox"/>	13	Station 013		
<input type="checkbox"/>	14	Station 014		

Program Settings

- Program Name: Program A
- Program Adjust: 100
- ET Adjust: None
- Start Days: Su MTWThFS
- Start Times: 12:00 AM

Cancel Submit

0/7 Selected

Manual Operations

The screenshot displays the iQ4 software interface for a 'MALKIN RESIDENCE'. The top navigation bar includes 'ACTIVITY', 'CONTROLLERS', 'PROGRAMS', 'REPORTS', and 'SYSTEM SETUP'. On the right, there are several status icons: a refresh icon (58), a warning icon (12), a no water icon (0), a water icon (0), a water icon (1), and a user profile icon with a '99+' notification.

The left sidebar shows 'MALKIN RESIDENCE' with a back arrow and a menu of options: Edit, Control, Logs, Sync, Reverse, and More. The 'Controller Settings' panel is expanded, showing a 'Flow' section with a progress bar and the following data:

- Actual Flow Rate: 2.81 gal/min (87.95%)
- Expected Flow Rate: 3.19 gal/min

The main area displays a 'Programs' table with the following data:

#	Name	Stations	Status	Start	Water Days	Adjust
<input type="checkbox"/>	A	Program A	-	07:00	M	200
<input type="checkbox"/>	B	Program B	Running	07:00	-	300
<input type="checkbox"/>	C	Program C	-	05:00	MFS	110
<input type="checkbox"/>	D	Program D	-	04:00	Su TTh	100

Manual Operations

The screenshot displays the iQ4 irrigation control interface. The top navigation bar includes 'ACTIVITY', 'CONTROLLERS', 'PROGRAMS', 'REPORTS', and 'SYSTEM SETUP'. The main header shows 'MALKIN RESIDENCE' and tabs for 'Programs', 'Stations', 'Master Valves', and 'Sensors'. The 'Stations' tab is active, showing a list of 12 stations. The 'Controller Settings' panel on the left is highlighted with a red box, showing a flow meter with an 'Actual Flow Rate' of 2.81 gal/min (87.95%) and an 'Expected Flow Rate' of 3.19 gal/min. The station list table has two rows highlighted with red boxes: Station 002 and Station 004, both showing a status of '58 min 53 sec'.

#	Station Name	Status	Landscape	Sprinkler	Notes
1	Station 001	Idle	Shrubs	Emitters	-
2	Station 002	58 min 53 sec	Trees	Emitters	-
3	Station 003	Idle	Shrubs	Emitters	-
4	Station 004	58 min 53 sec	Trees	Emitters	-
5	Station 005	Idle	Ground Cover	Dripline	-
6	Station 006	Idle	Shrubs	Emitters	-
7	Station 007	Idle	Turfgrass	Spray Heads	-
8	Station 008	Idle	Turfgrass	Rotors/Impacts	-
9	Station 009	Idle	Turfgrass	Rotors/Impacts	-
10	Station 010	Idle	Flowers/Garden	Emitters	-
11	Station 011	Idle	-	-	-
12	Station 012	Idle	-	-	-

Controller Settings

Flow: 0 to 6.38
Actual Flow Rate: 2.81 gal/min (87.95%)
Expected Flow Rate: 3.19 gal/min

Name: Malkin Residence
Controller Type: LXME
iQNet Type: Direct Satellite

Simple ET

The screenshot displays the 'Simple ET' configuration interface. At the top, a green navigation bar contains the 'iQ4' logo and menu items: 'ACTIVITY', 'CONTROLLERS', 'PROGRAMS', 'REPORTS', and 'SYSTEM SETUP'. On the right side of this bar are several status icons: a refresh icon with '0', a triangle icon with '2', a lock icon with '0', a plus icon with '0', a circle icon with '0', a notification bell with '49', and a user profile icon.

Below the navigation bar, the page title is 'PROGRAM 1 (LX-IVM PRO 4G)'. On the left, a 'Program Settings' modal is open, featuring a red border around the 'ET Adjust' dropdown menu, which is currently set to 'Simple ET'. Other settings visible include 'Delay Between Stations' at '0:00:00' and 'Start Days *'. At the bottom of the modal are 'CANCEL' and 'SAVE' buttons.

The main area on the right contains a table with columns: '#', 'Station', 'Status', 'Base Run Time', 'Adjusted Run ...', 'Landscape', and 'Sprinkler'. A single row is visible with the following data: '# 1', 'Station 001', 'Status -', 'Base Run Time 00:33:00', 'Adjusted Run ... 00:33:00', 'Landscape Trees', and 'Sprinkler Spray Heads'. Above the table are 'Edit', 'Start', 'Advance', and 'Delete' icons, and a yellow '+' button for adding new entries.

At the bottom left, a breadcrumb trail reads 'Dashboard > Programs > Program 1'. At the bottom right, it indicates '0 / 1 Selected'.

Activity Screen



ACTIVITY

CONTROLLERS

PROGRAMS

REPORTS

SYSTEM SETUP



49

ACTIVITY

Scheduled

Completed

Alerts

Select Site

3 days

Start 10/21/2019



End 10/24/2019



Acknowledge

Controller Name	Site Name	Name	Status	Total Run Time	Start Time	End Time
LXD with Flow	Flow Sites	Program A	Completed	03:00:00	10/24/2019 12:00 AM	10/24/2019 3:00 AM
LXD with Flow	Flow Sites	Program A	Completed	03:00:01	10/23/2019 12:00 AM	10/23/2019 3:00 AM
LXD with Flow	Flow Sites	Program A	Completed	03:00:00	10/22/2019 12:00 AM	10/22/2019 3:00 AM

Dashboard > Activity

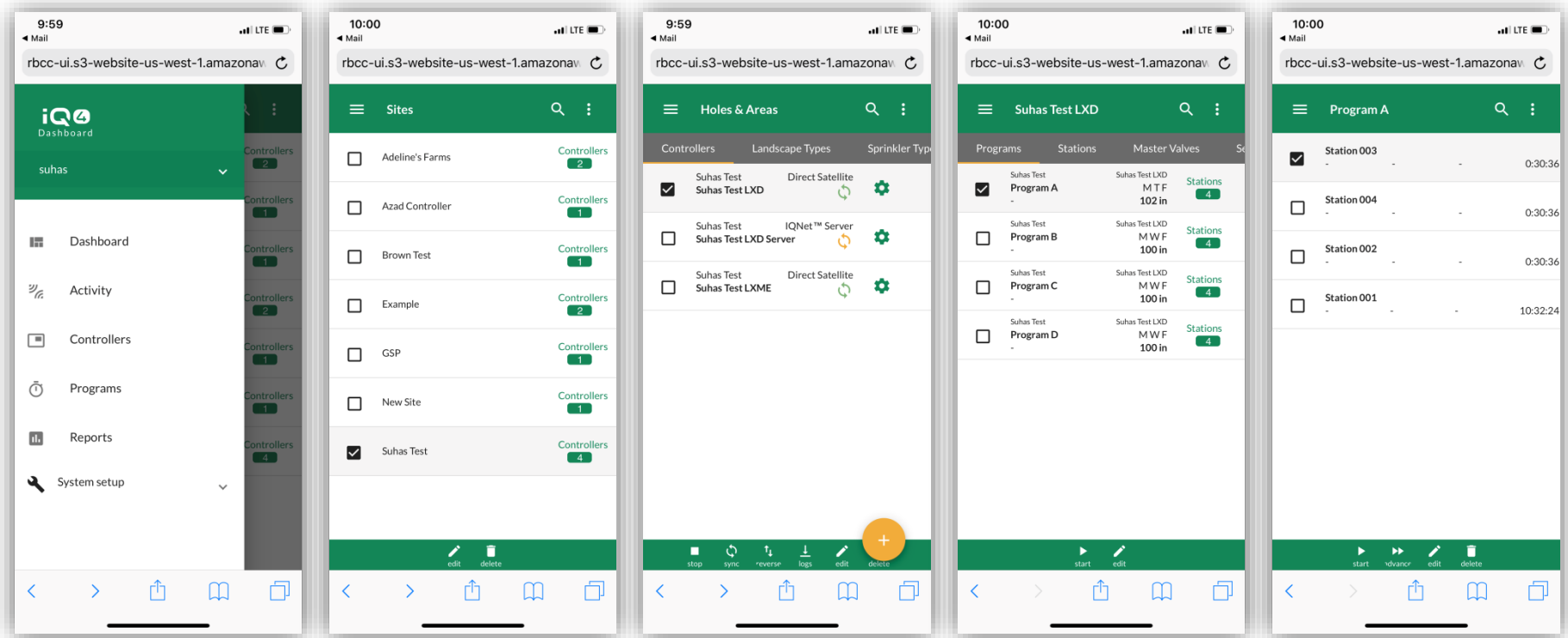
0/3 Selected

IQ4 Reports

The screenshot shows a web browser window with the URL `rbcc-ui.s3-website-us-west-1.amazonaws.com/reports/customreports/customreports`. The dashboard has a green header with the **iQ4 Dashboard** logo and navigation tabs: **ACTIVITY**, **CONTROLLERS**, **PROGRAMS**, **REPORTS** (selected), and **SYSTEM SETUP**. Below the header, there are sub-tabs for **REPORTS**, **CUSTOM REPORTS** (selected), and **DAILY REPORTS**. A **Select Site** dropdown menu is visible on the right. The main content area displays eight report cards in a grid:

- Station Run Time**: Program starts, Station Run Times, Total time, Estimated vs. Actual Total Flow. Icon: Stopwatch.
- Alarms and Warnings**: View the Alarms and Warnings notifications. Icon: Warning sign.
- Monthly Report Card**: Program starts, Stations run, Total time, Estimated vs. Actual Total Flow. Icon: A+ grade.
- Monthly Flow**: Compare previous vs current 30 day water consumption. Icon: Calendar.
- Flow Log Graph**: Compare previous vs current annual and monthly water consumption. Icon: Line graph with upward arrow.
- Water Management**: Compare previous vs current annual and monthly water consumption. Icon: Water tap and person.
- Water Use by FloZone™**: Compare previous vs current annual and monthly water consumption. Icon: Up and down arrows.
- Yearly Water Consumption**: Compare previous vs current annual and monthly water consumption. Icon: Calendar with numbers.

Mobile Accessibility



Example Report

iq4 ACTIVITY CONTROLLERS PROGRAMS REPORTS SYSTEM SETUP Playground

← STATION RUN TIME

1 Controllers Selected Custom Start 10/01/2019 End 01/15/2020 Run Report

Report Name* Station Run Time - 10/01/2019 - 01/15/2020

Flow Sites LXN with Flow LXN - Direct Satellite

From: 10/01/2019 12:00 AM To: 01/15/2020 11:59 PM

Select Recipients

Select recipients to receive the email:

Select All

Bert Wood

Cancel Submit

#	Station Name	Program A	Manual	Total Run Time	Estimated Flow (gal)
1	Station 001	16:29:47	00:00:00	16:29:47	25,917.2
2	Station 002	16:30:08	00:00:00	16:30:08	27,621.3
3	Station 003	08:14:54	00:00:00	08:14:54	10,291.8
4	Station 004	16:30:04	00:00:00	16:30:04	22,566.4
5	Station 005	16:29:53	00:00:00	16:29:53	22,169.9
6	Station 006	14:07:18	00:08:12	14:15:30	20,272.1
7	Station 007	08:14:58	00:01:59	08:16:57	10,232.0
Satellite Total		96:37:02	00:10:11	96:47:13	139,070.7

View PDF

Share

Rain Bird Dashboard > Reports > Station Run Time



App or Website	Mobile Compatible Website	Mobile Compatible Website
Supported Controllers	All LX Controllers	ICC2 and ACC2*
Edit Programs		
Days of Week	✓	✓
Start Time	✓	✓
Run Time	✓	✓
Edit Station Names	✓	X
Edit Program Names	✓	X
Set Station Delay	✓	✓
MV Assignment	✓	✓
Cycle & Soak	✓	✓
Station Tags	✓	X
Water Window	✓	X
Site Management		
Copy Controllers	✓	X
Move Controllers	✓	X
Site-Wide Adjustments	✓	X
Map		
See Location	X	✓
Make Adjustments	X	X
View Status	✓	✓
Create Test Controllers	✓	X
Change Settings		
Auto/Off	✓	✓
Seasonal Adjust	✓	✓
Flow Management	✓	X
Flow Watch	✓	X
Decoder Addresses	✓	X
Module Configuration	✓	X
Simulation	✓	X
Manual Start		
Program	✓	✓
Station	✓	✓
Weather Adjustments		
ET Adjustments	Simple ET based on Internet Weather Data, can be combined with Rain Sensor	Can set automatic Rain Delay based off of forecasted rain, can be combined with Solar Sync
Internet Based Weather	✓	✓
Text Message Alerts	✓	✓
Reporting		
Run Time Reports	✓	X
Water Usage Reports	✓	X
User Account Settings		
Share Controller	✓	✓
Share Site	✓	X
Access Restrictions	✓	X

New COM Products!



ESP LX-IVM Controller



IQ4 Central Control

What is IVM?

- **New two wire system → NO MORE DECODERS**
- **IVM – Integrated Valve Module eliminates decoder and 50% of wire connections**
- **Latching solenoid enables more simultaneous operations**
- **Two way communication with faster response times and enhanced diagnostics**



New LX Controller



ESP LX-IVM Series 2-Wire Controllers

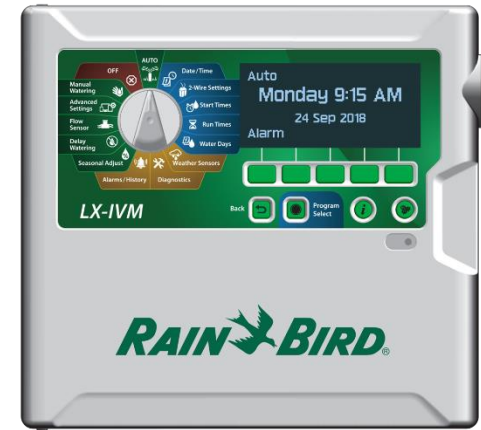
■ ESP LX-IVM

- 60 Stations
- 5 Master Valves
- 5 Flow Sensors
- 4 Weather Sensors (1 local)
- 8 SimulStations
- 10 Programs

■ ESP LX-IVM PRO

- 240 Stations
- 10 Master Valves
- 10 Flow Sensors
- 8 Weather Sensors (1 local)
- 16 SimulStations
- 40 Programs

ESP LX-IVM



ESP LX-IVM PRO



“No Expansion Modules”

IVM-Series Field Devices

IVM-SOL

Commercial Valves interface — *not compatible with Contractor Valves*
 AC vs DC Latching Solenoid



IVM-SEN

For weather and flow sensors
 Same sensors used with ESP-LXD are compatible



IVM-OUT

Makes third party valves work like ours

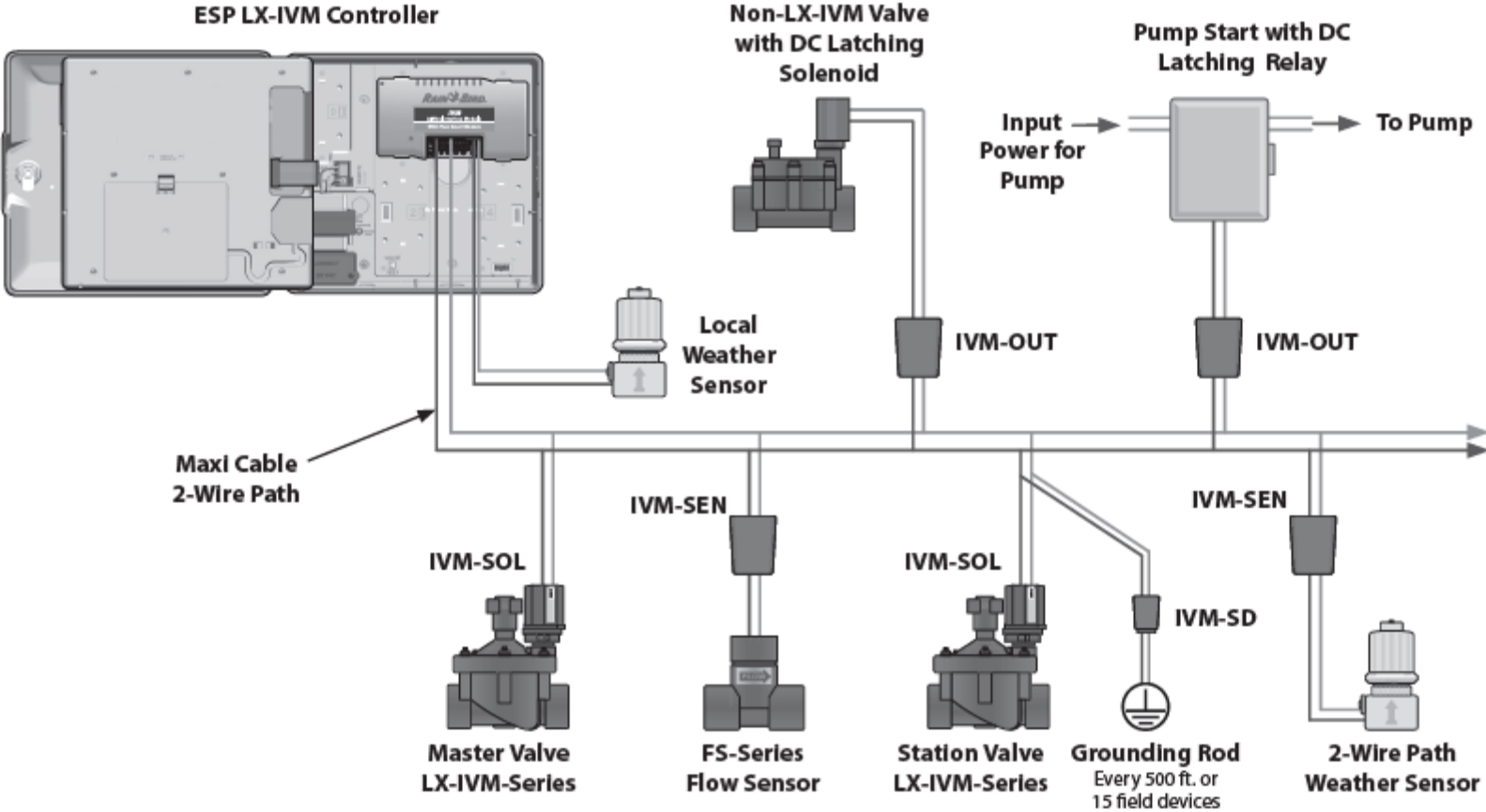


IVM-SD

Surge Protection
 Install every 500' or 15 field devices.



IVM System Layout



What about the LXD?

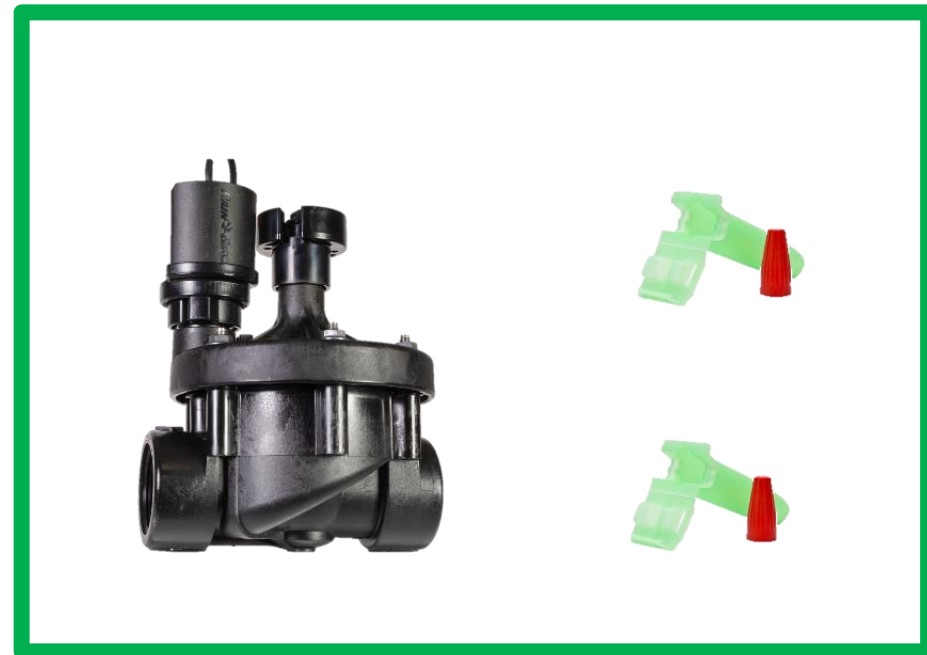


Us vs Them – Less Complicated

Hunter®

or

RAIN BIRD®



- Integrated & Preinstalled Solenoid eliminates 50% of wire splices (90% of failures)
- Less stuff to buy – fewer connectors and no expensive programming tools
- Faster to install and more reliable!

Us vs Them – Familiar User-friendly Interface!



- Simplified version (half the dial positions) and familiar Rain Bird programming
- Screen is twice as large and back lit for high visibility anywhere
- Info button for assistance at any programming step
- Large backlit buttons that are actually usable

Key Point – Best-in-Class Specs!

ESP LX-IVM PRO



- 40 Programs/240 Stations
- 16 Simulstations + MVs
- 10 Master Valves
- 10 Flow Sensors
- 8 Weather Sensors
- Up to 96 hr run times
- 20kV integrated surge protection
- Central Control with **iQ4**

ACC 2 Decoder



- 32 Programs/225 Stations
- 30 Simulstations
- 6 Master Valves
- 6 Flow Sensors
- 4 Weather Sensors
- Up to 12 hour run times
- Automotive fuses...?
- **NO CENTRAL CONTROL**

Key Point – Diagnostics / Self-Healing!



- Can make solenoid chatter to help locate
- Wire Short Test
- Decoder List

- 4 Isolated Wire Paths ensure that shorts don't take down the full system
- 2-Wire Mapping and List-Not-Responding identifies device failures
- Trending 12-month electrical history reports and proactive action
- Self-healing and restart after 2-Wire shorts
- Two-Way Communication with devices activates self-shutoff when power is absent

IVM – 4 Things to know

■ Controller

- This is the best and most advanced controller on the market
- New User Interface is a lot easier to use
 - 2.5x Bigger screen, backlight
 - Less Dial Positions and backlit buttons

■ IVM SOL

- The IVM Technology is a game changer for two wire and will be the future
 - 50% less wire splices = 200% more reliable
 - Advanced diagnostics pinpoint problems
- Can't be mixed with other decoder systems