IQ™4 Platform

The IQ4 Platform offers state-of-the-art command and control features in a streamlined use interface. IQ4 provides advanced water management features saving money and time. IQ4 is available at iq4.rainbird.com

Applications

All IQ4 versions provide remote programming, management, and monitoring of ESP-LX Series Controllers from the computer in your office. IQ4 is the perfect irrigation control solution for parks departments, school districts, property managers, landscape maintenance contractors, and water managers. IQ4 can manage small single-controller sites as well as large multi-controller sites and supports both traditionally-wired and two-wire ESP-LX Series controllers.

IQ4-Cloud

Cloud-enabled web-based service allowing users to login and control their irrigation system from any internet connected web-browser device. IQ4 is ideal for organizations with multiple irrigation system administrators and/or users that require mobility. Full features of IQ4 can be accessed on any touchscreen devices found in smartphones or tablets. Internet access is required.

IQ4 Platform Software Features

- Compatible with ESP-LXME2, ESP-LXME2 PRO, ESP-LXME2, ESP-LXME2 PRO, ESP-LXIVM, ESP-LXIVM PRO, ESP-LXME, and ESP-LXMEF traditionally-wired and ESP-LXD two-wire decoder controllers
- Site, controller, and station names
- Programming in seconds, minutes, and hours
- Daily or Monthly Seasonal Adjust % or ET station run time adjustments by site
- Manual Program, Test Program,
- Station starts
- Detailed logs and reports
- Automated or user initiated controller Synchronize & Retrieve Logs and Weather Source Retrieve Weather
- Data communication
- Automated Email Alarm/Warning and Controller Station Run Time Reports
- Controller PIN-Code Protection
- (4-digit PIN-Code required to make programming changes at the controller)
- Controller Two-Way Programming
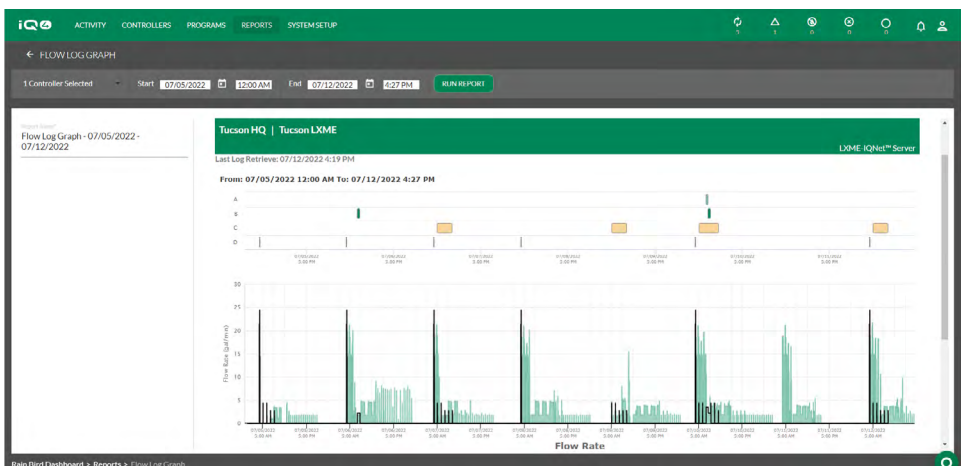- (changes made at the controller can be viewed and accepted in the IQ4 software)

- Copy/Move Controller Utility (copy or move a controller to another site)
- Auto-Synchronization of data from
- IQ to Controller
- Software uses Irrigation Association terminology and formulas
- ET/Rainfall Weather Sources include:
  - CIMIS Internet Service (California only)
  - Rain Bird WSPROLT Weather Station
  - Rain Bird WSPRO2 Weather Station
- IQ Global Weather Internet Service which provides local weather data including rain fall
- Retrieves minute-by-minute flow logs from flow sensor equipped ESP-LXMEF, ESP-LXIVM and ESP-LXD Controllers

- Flow Logs vs. Projected Flow Graphical Report (identifies which programs & stations where running at any point in time)
- Actual Flow Totals added to Controller Station Run Time Report (included in Automated Email Reports)
- User selectable languages include German, English, French, Italian, Spanish, Portuguese, Swedish, Vietnamese, Japanese, Korean and Chinese

How to Specify

IQ4 Platform
  IQ4-Cloud

Specifications

The irrigation central control system shall be the IQ4 Platform as hereafter specified and as shown on the drawings. The system shall be fully programmable, providing the operator with absolute and full control of the entire control system. The system shall provide a degree of flexibility such that, in effect, anything that could be done at the controller shall be capable of being done at the remote device.

The system shall have a Web Based graphical user interface (GUI) that allows easy programming and graphical depiction of the satellite controller programming.

IQ4 Platform shall have the following features:

Compatibility:
- ESP- LXME2 & ESP- LXME2 PRO Series traditionally-wired controllers with 1 to 48 station capacity
- ESP- LXME & ESP- LXMEF Series traditionally-wired controllers with 1 to 48 station capacity
- ESP-LXD Series Two-wire decoder controllers with 1 to 200 station capacity
- ESP-LXIVM & ESP-LXIVM PRO Two-Wire Series IVM controller with 1 to 240 station capacity

Administrative:
- Virtual log-on passwords to administer access privileges to multiple users
- Languages: German, English, French, Italian, Spanish, Portuguese, Swedish, Vietnamese, Japanese, Korean and Chinese
- Preferences: User defined date/time, and unit formats
- Grouping: Based on site, landscape and sprinkler type

Hardware Support:
- For interface with software:
  - 4G Network Communication Cartridge (NCC)
  - NCC Ethernet Cartridge
  - NCC RS 232 Cartridge
- Configuration: Direct, Server and Client
- Up to 255 Client Controllers per each server controller with sharing of weather sensors and master valves

Software Capabilities:
- Detect modules
- Cartridge firmware upgrade
- Upload programs to Controller (Synchronize)
- Retrieve controller programs (Reverse Synchronize)
- Automatic contact to upload programs to controller after 1 hour of inactivity and retrieve logs from controller outside watering window (Auto-Synchronize)
- Manual Functions:
  - Start program, test program, Auto On/Off, Turn Master Valves On/Off for manual watering, turn Flo-Manager™ On/Off and Rain Delay
- Adjustments: Program Adjust and ET adjust
- ET/Rain weather resources:
  - IQ Global Weather
- Group Edit:
  - Site level, Controller level, Program level and Station level
  - Additional grouping based on landscape type and sprinkler type
- Define Valve types and Sensor types
- Flo-Watch based on learned flow
  - Diagnose and shut off the source
- User defined Station Priority
- Begin watering in next watering window
- User defined Simulstations
- Flo-Manager™ to reduce overall watering time

- Configurable scheduled reporting through emails
- Water Management, Configuration and Audit reports
- Remote controller diagnostics
- Minute-by-minute flow logs in a graph comparing actual flow and projected flow
- PIN based user access:
  - Two way programing
  - User Access level
  - Complete and partial Lockout
  - 5 PINs per controller
- Flow Logs
  - Minute-by-minute graphical comparing of actual flow and projected flow
  - Actual flow totals in the automated email reports
- Configurable master valve and sensor sharing
- Dryrun™ for schedule forecasting