

Built for Real-World Reliability, Seamless Integration, and Smarter Field Operations

Software Platform

LEC Technologies' Lift Station Monitoring and Control Solutions collect and transmit data from a multitude of device types across most industry manufacturers into a single, cyber-secure, web-based dashboard accessible from any modern desktop or mobile browser. The iQ2 platform provides automation and delivery of real-time data from remote lift stations to enterprise applications across your operational ecosystem. iQ2 utilizes versatile embedded firmware, with compliance and reporting available out of the box, and seamless distribution to existing SCADA systems, GIS platforms, and other solutions already in use.

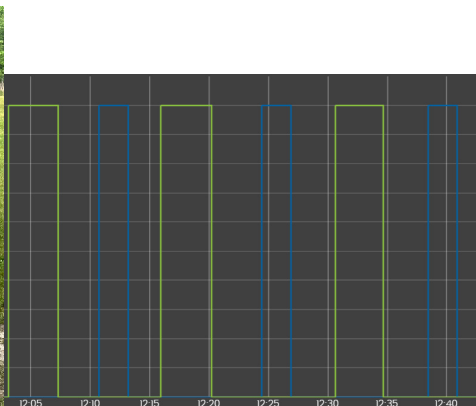
Nonproprietary Hardware

iQ2 utilizes off the shelf hardware from the industries leading manufacturers providing monitoring and control designed for rugged environments supporting a flexible mix of digital and analog inputs with relay outputs. Hardware works seamlessly with the iQ2 dashboard, allowing users to log in and view live lift station data out of the box.



Private Cybersecure Network

The backbone of each lift station solution is a fully managed, cybersecure private LTE multi-carrier network. This network includes FirstNet built with AT&T as an option, providing municipal water and wastewater access to the same dedicated cellular infrastructure used by first responders.



High Level Float Status	Alarm
Pump 1 Running Status	Not running
Pump 2 Running Status	Running

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Versatility in the Field:

Battery-Powered Cellular for basic Lift Stations

- Extremely affordable design retrofit capable
- Battery-powered device with no additional power requirements
- “Out of the Box” compliance capabilities
- Rugged IP68 Rated Industrial Device-Replaceable battery



Cellular Gateway for existing or new Lift Stations

- Simply integrate and communicate with new or existing field infrastructure
- Connect existing sensors with onboard configurable Analog or Digital inputs
- Connect fixed, modular, and compact PLC's utilizing industry standard Modbus TCP, Ethernet IP, and other protocols
- Easily connect to existing controller modules to convert them to the iQ2 Interface



Field Flex-Cellular RTU for existing or new Lift Stations

- Connect, control, and monitor existing sensors with eight, 12-bit analog/digital inputs, two optically isolated digital inputs and two solid-state relay outputs, including Modbus
- Remotely control optically isolated relay outputs from the iQ2 User Interface
- Non-Proprietary components make routine or unexpected maintenance easy and affordable



Pump Controller RTU's for existing or new Lift Stations

- Connect, control, and monitor existing sensors with, an embedded I/O controller featuring built in logic, operator interface, and networking capabilities.
- 12 digital inputs, 6 relay outputs, 2 analog outputs, 2 analog inputs
- Pre-Loaded monitor and control programs for Simplex, Duplex, and Triplex stations/installations
- Available as an installable package independent of the NEMA 4 enclosure.
- Remotely control from the iQ2 User Interface

