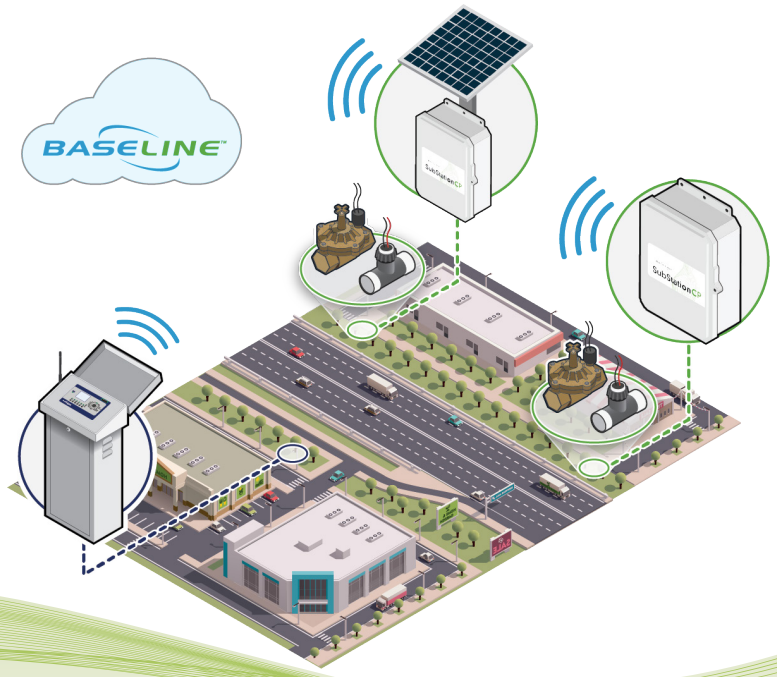

BASELINE™

SubStation CP™

AC or Solar Powered
Wireless Remote Valve Control

The SubStation CP - with built-in flow and master valve decoders - brings cloud-based flow management to the most remote areas of any site, for real-time flow monitoring, alerts, and shut off. The CP gives users the ability to quickly respond to leaks and breaks, preventing potentially catastrophic landscape or property damage. It allows the BaseStation 3200 to integrate points-of-connection and flow sensing without the expensive trenching, all connected via the cloud.

Enables system alerts and shutdown capabilities

Gives users the ability to quickly respond to leaks and breaks

Seamless to install and activate

Eliminates the need for expensive and disruptive trenching

Bring remote flow management and control into your Baseline system

Learn More
https://bit.ly/3HrrolW

SubStation CP

Key Features

Overview

- The SubStation CP is capable of self-identifying to the BaseStation 3200 and will report pre-configured unique serial numbers and zone addresses.
- The SubStation CP serial numbers are printed on the inside of the enclosure.
- The SubStation CP can be connected to flow devices with either 2 or 3 wires.
- The SubStation CP reads a minimum of a 1-millisecond low pulse at 400 hertz and a maximum of 400 pulses per second.
- The SubStation CP is able to search for a flow meter.
- The SubStation CP is able to run a pulse-output flow meter up to 1,500 feet away.
- The SubStation CP is able to run a 24VAC master valve up to 1,500 feet away.
- Search for and assign each decoder serial number to a zone address report whether or not a solenoid is present.
- Re-address any device from the controller by re-assigning the devices serial number to a new zone address.
- Detect and repair from the controller all address conflicts for devices that are connected to the two-wire.
- Provides diagnostic LEDs for simple installation and troubleshooting
- Displays status of device and the connected status of the BaseStation 3200
- “Cloud-display” offers controller-like display accessible in BaseManager
- High-speed LTE cellular communication
- NEMA 6P (IP68) waterproof lockable enclosure
- Supports firmware updates over the air

BaseStation 3200 Features

- Learn the flow for each zone
- Use flow data to maximize the number of zones the controller can turn on at once to help shorten water windows
- In the event of unexpected high or low flow, automatically determine which zone is at fault and alert without interrupting the rest of the watering cycle
- Protect site from mainline breaks with configurable high and low flow shutdown settings
- The BaseStation 3200 supports up to 8 SubStation CP devices
- Total ControlPoint counts, including the flow sensor and master valves connected to all SubStation CPs must remain within the BaseStation 3200 specifications.
  - SubStation CP devices that exceed the BaseStation 3200 limits are ignored.
- All search and assign operations for SubStation RV zones are performed from the BaseStation 3200 or from BaseManager.
- All programming operations for SubStation RV zones are performed from the BaseStation 3200 or from BaseManager.
- All test operations for SubStation RV zones are performed from the BaseStation 3200 or from BaseManager.
- Displays status of the SubStation RV connection and reports the number of each zone from last search
- For SubStation RV compatibility, ensure that the BaseStation 3200 is running firmware version 18.0 or greater.

Communications Specifications

- The SubStation CP communicates with a BaseStation 3200™ irrigation controller over a 256-bit encrypted cellular network.
- The SubStation CP supports AT&T and Verizon service providers

Enclosure Options

SubStation CP enclosures are large enough to hold the processor board, the terminal board, power supply, and a communication module.

- High impact polycarbonate low profile hinged enclosure with integrated locking latch, opaque cover and integrated mounting flange.
- The enclosure is 8 inches tall by 6 inches wide by 3 inches deep
- Includes enclosure mounting tabs
- Includes three openings in the bottom of the enclosure to accommodate field and power wires
- NEMA 6P (IP68) Waterproof
- Freeze/heat resistant -4°F to 140°F
  - SubStation CP devices that exceed the BaseStation 3200 limits are ignored.
- NEMA 6P (IP68) Waterproof

Solar Power Option

The solar power solution for the SubStation RV comes complete with a fully-integrated solar charge circuit with diagnostic LEDs and high capacity lithium ion rechargeable batteries. This self-contained wireless valve technology allows you to put the SubStation RV anywhere you can capture ambient light for solar power.

The SubStation CP supports flow sensing devices with a pulse-output. The SubStation CP will not support flow sensing devices that already have 2-wire integrated technology.

The following product series are not compatible with the SubStation CP:

- BL-PFS-XXX
- BL-BHM-XXX
- BL-CP-PFS-XXX

Find out more at hydropoint.com/baseline/products/substation-cp

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Electrical Specifications

AC Power Specifications

Transformer Input

- Transformer Input requires 120 VAC, 50 Hz to 60 Hz and a minimum of a 5 amp breaker
- Requires a certified electrician for hard-wire installation
- Does not support other Baseline flow management products with integrated 2-wire technologies
- The SubStation CP can supply up to 20mA of current and 13v.
- Requires a typical solenoid with approximately 400 milliamps of inrush current and approximately 200 milliamps holding current

Pulse Sensor Output

Max Current	1.4mA
Max Voltage	7Vdc
Minimum Low Pulse Width	1mS
Minimum High Pulse Width	1mS
Minimum Pulse Period	2.5mS
Maximum Frequency	400 Hz
Maximum Pulse Rate	400 pps
Maximum Pulse Width	1 min 50 sec
Surge Clamping Voltage	47V
Surge Current - Peak Pulse (10/1000µs)	200A
Voltage - Isolation to 2-Wire	470V

Voltage Output

Series Internal Restistance	0ohm
Max Current	20mA
Max Voltage	13Vdc
Surge Clamping Voltage	47V
Surge Current - Peak Pulse (8/20µs)	200A
Voltage - Isolation to 2-Wire	470V

Solar Power Specifications

Electronic Protections

- Solar: Overload, short-circuit, high voltage, transient surges
- Load: None
- Battery: High Voltage

Battery Specifications - 50E 21700

Amp Hours	5000 mAH per battery
Nominal Voltage	3.6 V
Max Charge Voltage	4.20 V
Standard Charge Current	2.45 A
Optimal Discharge Temp	-20°C - 60°C
Optimal Charging Temp	0°C - 45°C
Over Current Range	6.0 A - 12.0 A