

Pro-HC Written Specification

Part 1 – General

- 1.1 The automatic controller shall be the PRO-HC series controller as manufactured by Hunter Industries Incorporated, San Marcos, California. The controller shall be a residential and light commercial product for the purpose of irrigation operation, management and monitoring control valves, flow and sensors. The controller shall be available in 6, 12, or 24 fixed station counts. The controller shall be with Hydrowise; an internet based irrigation software solution with Wi-Fi connectivity.

Part 2 – Controller Enclosure / Box

- 2.1 Controller Shall be available in the following options:

A. Outdoor Wall Mount Controller

1. PCH-x
2. Height 9" (22.86 cm) x Width 10" (25.4 cm) x Depth 4" (10.16 cm)
3. Controller shall be furnished in an outdoor, weather resistant, wall mount plastic enclosure with key lock, and 4 knock out ports for equipment.
4. Controller shall offer fixed station counts in the following quantities:
 - a. 6 (PCH-6)
 - b. 12 (PCH-12)
 - c. 24 (PCH-24)
5. The controller shall have a Transient Voltage Suppressor on the power input portion and Metal Oxide Varistors (MOVs) on the secondary output portion to help protect the micro-circuitry and triacs from power surges.
6. The controller shall be CE, UL, cUL, C-tick, and FCC rated and approved
7. A 751 CH key shall be mounted in the enclosure door for security
 - a. Two (2) keys shall be provided per each controller

B. Indoor Wall Mount Controller

1. PCH-x-i
2. Height 8.25" (20.955 cm) x Width 9.5" (24.13 cm) x Depth 3.5" (8.89 cm)
3. Controller shall be furnished in an indoor wall mount plastic model with 4 knock out ports for equipment.
4. Controller shall offer fixed station counts in the following quantities:

- a. 6 (PCH-6-i)
 - b. 12 (PCH-12-i)
 - c. 24 (PCH-24-i)
5. The controller shall be CE, UL, cUL, C-tick, and FCC rated and approved

2.2 Warranty

- A. The controller shall be installed in accordance with the manufacturer's published instructions and shall carry a conditional two-year exchange warranty.

Part 3 – Controller Hardware

3.1 Controller Display shall be full graphical touchscreen interface allowing programming and manual operation.

3.2 Control Panel

- A. Operation shall be via the touch screen with no buttons or dials.
- B. Battery Back-up shall be done without the need for installing or using any replacement battery.
- C. A protective door shall protect the wiring and internal components from moisture and dust.

3.3 Controller Power shall be available in the following configurations:

- A. Transformer Input:
 - 1. 120 VAC
 - 2. 230 VAC (International Model)
- B. Transformer Output:
 - 1. 24 VAC: 1 A
- C. Station Output:
 - 1. 24 VAC: 0.56 A
- D. Pump / Master Valve:
 - 1. 24VAC: 0.28 A

3.4 Station Terminal Strip

- A. Fixed Station in 6, 12 or 24 quantity
- B. Large terminal strips

3.5 Sensor Inputs

- A. Controller shall be equipped with two (2) dedicated general purpose sensor ports for use with Hunter HC flow sensor and Hunter Klik sensors.
- B. A Sensor Common port shall be located between each of the sensor ports to ensure easy wiring.

3.6 Pump / Master Valve Output

- A. Dedicated Pump / Master Valve terminal strips
- B. 24VAC: 0.28 A

3.7 Wi-Fi Information

- A. Controller shall be equipped with a built-in Wi-Fi
- B. Operation shall be 802.11 BG
- C. Frequency is 2.4GHz
- D. Security shall have the ability to auto detect and offer the following security settings WPA2, WPA Personal, WPA Auto.

Part 4 – Controller Programming and Operational Software

4.0 General

- A. The controller shall be available in an English language display
- B. The display shall include selectable setting for date, time, and units of measurement.

4.1 Programming

- A. The controller shall operate with thirty-six (36) independent programs
- B. Only one program may be running at any given time in conjunction with a pump/master valve
- C. Schedule Options
 - 1. 7-day calendar
 - 2. Up to 31 day interval calendar
 - 3. Odd day programming and even day programming
 - 4. Odd week programming and even week programming
 - 5. 365-day calendar clock of true odd-even watering
- D. Units of run time are programmed in minutes
- E. Programmable delay description
 - 1. Inter Zone Delay - The delay between each zone starting to a maximum of 3600 seconds

2. Master Valve Delay - The number of seconds that the master valve starts before a zone starts. To a maximum of 600 seconds

4.2 Software

- A. The Controller shall connect to the Hydrowise Software platform.
 1. Hydrowise Software is available in an App for Apple and Android devices and also as a web login.
- B. Hydrowise™ cloud software is a user-friendly water management software. Each homeowner can use Predictive Watering™ Adjustments to achieve water savings. Hydrowise software is also a powerful tool for professional contractors to do in-depth water management for their client's landscape, piping system and valves electrical system. It is a professional cloud-based irrigation software that works for everyone.