

7.0 User's Manual:

FCC Statement

This device complies with FCC rules Part 15. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) this device must accept any interference that may be received, including interference that may cause undesired operation.

Transmitter FCC ID:

Receiver FCC ID:

This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. No user modifications may be made to this unit, doing so voids the user's FCC authority to operate the equipment.

Trade Warranty

Abacus Controls, Inc. warrants that its products will be free from original manufacturing defects in materials and workmanship for a period of three years from the date of manufacture. Abacus Controls, Inc. will repair or replace, without charge, any returned product found to have original manufacturing defects.

This warranty does not cover batteries, cords, or loss due to improper installation, abuse, alteration, mishandling, accident, lightning strikes, or product that has been serviced by other than Abacus Controls, Inc. or its authorized service centers. This warranty is not a consumer warranty and does not extend to anyone other than those trade customers who purchase Abacus Controls, Inc. products. This warranty is void if the serial number has been altered or removed from the product.

Repair or replacement as provided under this warranty is the exclusive remedy of the customer. Abacus Controls, Inc. is not liable for indirect, incidental or consequential damages resulting from product malfunction.

The Abacus Remote

Operating Guide



Thank you for purchasing the Abacus Remote. With its range, winterization and electrical troubleshooting capabilities, the Abacus Remote is a powerful service tool when used with an Abacus controller. Whether it be a small residential system or large commercial site, the Abacus Remote will help you troubleshoot electrical faults and reduce the time you spend on service calls.

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CONTROLS, INC.

Installation Instructions...

Plug the supplied cord of the receiver into the remote jack on the face of the controller or into the outdoor remote jack.

- The Status Light on the receiver should be green.
- A red light indicates faulty wiring.
- No light means there is no power available.
- The receiver is not intended to be left connected to the controller. Disconnect after use.

Basic Operating Instructions...

NOTE: Any time a key is pressed on the transmitter the light will flash green to indicate it is functioning and the key was recognized. The light will flash for approximately four seconds while the remote is transmitting commands. **WHILE THE REMOTE IS TRANSMITTING, NO OTHER REMOTE COMMANDS CAN BE SENT.** You must wait until the green light is off before sending your next remote command.

- 1) Use the keypad digits to select the zone that you want to run.



For example, to run zone 6 you would press key number 6. To run zone 12, you would press key number 1 and then key number 2.

- 2) Press the On / Advance key to run that particular zone.



Pressing the On / Advance key again will stop the current zone and start the next numbered zone.

- 3) Press the Off / Clear key to turn off all zones.



Since there is no set watering length, a Zone will remain on until it is turned off. See Remote Notes.

Advanced Remote Features...

Scan

The Scan key identifies electrical problems with the irrigation system. When Scan is pressed, the display on the receiver will identify which zone is faulty, and the Status light on the receiver will identify what the electrical problem is with that zone.

- Yellow light indicates a broken wire or open circuit.
- Red light indicates a bad solenoid or a shorted circuit.

Winterize

The Winterize key will allow the remote to turn on multiple valves.

- 1) Press Winterize, the receiver Winterize light will be green.
- 2) Select a zone.
- 3) Press the On key.
- 4) Repeat steps 2 and 3 to open multiple zones.
 - *Note: Up to four valves may be opened at once.
 - *Optional: Pressing On again will also activate the next zone.
- 5) Press the Off key to turn Off all active zones.
- 6) Continue steps 2 and 3 until system Winterizing is complete.
- 7) Press the Winterize key to end Winterizing, the light will shut off.

Remote Notes...

- Try to avoid placing the receiver in a metal building or underground.
- Do not stand between transmitter and receiver while sending commands.
- Try to avoid having trees, buildings, or hills between the transmitter and receiver.
- Plugging the receiver into an Abacus remote jack mounted on the outside of the building will often increase maximum range.
- If no keys are pressed on the remote, the remote will shut down the zone that is running after approximately 1 hour.
- If the receiver is unplugged while a zone is still running, watering of that zone will shut down after approximately 5 minutes.