



Rain Bird® ESP-LXD Decoder Controller



**Rain Bird Wireless Rain/Freeze
Sensor w/ 48 hour delay™**



Rain Bird 2-Wire Decoders

The Rain Bird ESP-LXD Decoder Controller building on The Intelligent Use of Water™ legacy, combining the efficiency of two-wire control with trusted Extra Simple Programming.

- **Advanced, easy-to-use features.** With features like Cycle+Soak™ and Contractor Default Program, the ESP-LXD offers innovative features proven to cut installation expenses, troubleshooting time and water use.
- **Unprecedented flexibility.** A modular design makes the ESP-LXD the perfect fit for a range of large residential and commercial projects—from the straightforward to the most complex.
- **200-station capacity.** The LXD offers the ability to expand from the base 50 stations up to 200 stations, so we can handle sites large or small.
- **Built-in flow capability.** Flow manager™ ensures you don't over-utilize your water supply, while FlowWatch™ quickly identifies and isolates high or low flow situations, such as mainline breaks or non-working valves.
- **Remote Management.** Connect to your controller from anywhere in the world using a laptop, tablet or smart phone! Change schedules for seasonal variances, shut down parts of your system during a special event, monitor flow to ensure your system is operating at baseline, or a slew of other functions! Requires optional equipment.
- **Advanced Diagnostics.** Rain Bird's innovative two-wire path electrical diagnostics will keep you aware of any issues within the two-wire path and guide you towards its resolution.



**Rain Bird Optional Communication
Card for remote access**

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FEATURES

- Out of the box 50-stations; expandable to 200 stations via (2) additional 75-station modules
- Four available sensor inputs (one wired, up to three decoder-managed) with override switch.
- Five flow sensors supported
- Flow sensing and weather sensor decoders available.
- Master valve programmable by station.
- Zones can be percentage-based adjusted via programs or by month.
- Central Control capable, Rain Rain Bird IQ Communication Cartridges and software/app.
- Six user-selectable languages.
- Removable front panel is programmable under battery power.
- Plastic, locking, UV resistant, wall-mount case is standard. Optional metal and stainless steel case and Pedestal available.
- Alarm light with external case lens viewable when exterior door is closed.
- Electronic circuit breaker.
- Program review and calculator of program run-time.

ADVANCED FEATURES

- Cycle+Soak™ allows quick watering
- Contractor Default Program™: Restore altered programs in a flash.
- Electrical Diagnostics of two-wire path, decoders, solenoids and more.
- MultipleTest sequences, including by Program, Test-All, and Zone Stacking.
- Easy Programming Changes: Delay Watering (by day, date); Using Watering windows, Program delay between stations (for well/pump recovery) and more!

How Two-Wire Control Works



Your ESP-LXD controller is linked to decoders in the field by a two-wire path. This path carries voltage and information.



To allow watering, the ESP-LXD sends out a unique signal to one of the decoders on the two-wire path.



The signal instructs that decoder to open the valve.



Because the signal only applies to the decoder and valve at that specific address, no other decoder accepts the instructions.