



The ESP-LX Basic Controller offers basic irrigation programming options you need for commercial sites. The simple dial makes programming the controller straightforward, and easy-to-understand menu options guide you through set-up. The ESP-LX Basic is the first controller to offer both English and Spanish on one dial.

With 48-station capacity, four independent programs and up to eight start times for each station the ESP-LX Basic offers flexible scheduling options.



Water Saving Tips

- A Seasonal Adjust feature is available on all Rain Bird AC-powered controllers, allowing users to easily adjust irrigation schedules to changing seasonal landscape water requirements. The ESP-LX Series Controllers also feature an automated Monthly Seasonal Adjust feature to help save water through automatic adjustments every month of the year.
- Water savings can also be optimized through daily irrigation schedule adjustments which fine-tune watering based on current weather. All ESP-LX series controllers can easily be upgraded to include smart weather-based/ET or soil moisture irrigation control capability by adding the Rain Bird ET Manager Cartridge.
- All Rain Bird controllers simplify conservation through a variety of flexible programming features. With the touch of a button, the ESP-Me can recall a previously saved "Contractor Default" irrigation program; the ESP-LX Series "Delayed Recall" feature automatically reverts to typical watering programs after a user-set time period.

Major Products							
Primary Applications	ESP-RZX	ESP-Me	ESP-SMTe	NEW ESP-LX BASIC	ESP-LXME ESP-LXMEF	ESP-LXD	TBOS II™
Residential	•	•	•				•
Light Commercial		•	•	•	•	•	•
Commercial/Industrial				•	•	•	•
Type of Controller							
Hybrid	•	•	•	•	•	•	
Solid State							•
Battery Operated							•
Indoor Location	•	•	•	•	•	•	
Outdoor Location	•	•	•	•	•	•	
Features							
Stations (up to)	8	22	22	48	48	200	4
Programs (up to)	8	4	22	4	4	4	3
Station Timing (up to)	199 min ¹	6 hr ¹	weather-based	12 hr ¹	12 hr ¹	12 hr ¹	12 hr
Number of Starts per Program (up to)	6 ³	6	N/A	8	8	8	8
Surge protection	•	•	•	•	•	•	
230VAC Option	•	•	•	•	•	•	
Master Valve/Pump Start	•	•	•	• ²	• ²	• ²	
Water Budgeting	•	•	•	• ⁶	• ⁶	• ⁶	
Individual Program/Zone Shut-Off	•	•	•	•	•	•	
Rain Delay	•	•	•	•	•	•	
Battery Programmable	•	•	•	•	•	•	•
Sensor Terminals, Status Indicator and Override	•	•	•	•	•	•	
Delay Between Stations (up to)		9 hrs	9 hrs	0 - 10 min.	0 - 10 min.	0 - 10 min.	
Flow Sensing					•	•	
Simultaneous Multi-Station Operation				•	•	•	•
Cycle + Soak™			•	•	•	•	
Overlapping Programs				•	•	•	
Manual On/Off	•	•	•	•	•	•	•
Remote Control Compatible	•	•	•	•	•	•	
Diagnostic Test			•	•	•	•	
Diagnostic Circuit Breaker	•	•	•	•	•	•	
Out-of-Valve Box Programming							•
Submersible (up to)							3.3 ft (1 m)
Vandal/Tamper Resistant							•
Self-Cleaning Solenoid							•
Low Battery Indicator							•
Save / Restore Programs	•	•	•	•	•	•	•
Master Valve ON/OFF by Station		•	•	•	•	•	•
Total Run Time Calculator by Program		•	•	•	•	•	•
Bypass Rain Sensor by Station	•	•	•	•	•	•	
Programming Schedule							
7 Day-of-Week	•	•	•	•	•	•	•
1-7 Variable Cycle		•	•	•	•	•	•
1-31 Variable Cycle	•	•	•	•	•	•	
Odd/Even Cycle	•	•	•	•	•	•	
Odd 31st		•	•	•	•	•	•
365-Day Calendar	•	•	•	•	•	•	
Event Day Off			•	•	•	•	
Central Control Compatibility							
Maxicom ^{2®} and SiteControl Upgradeable							
IQ™ Upgradeable					•	•	
Cabinet							
Plastic-Indoor	•	•	•				
Plastic-Outdoor	•	•	•				•
Powder-Coated Metal Outdoor				•	•	•	
Stainless Steel Pedestal				•	•	•	
Powder-Coated Metal Pedestal				•	•	•	
Hardware/Accessories							
Two-Wire Decoders and Accessories						•	
Rain Sensor	•	•		•	•	•	•
Flow Sensor					ESP-LXMEF only	•	
ET Manager™ Cartridge					•	•	

¹ With water budgeting, timing can be extended ² Programmable by station ³ 6 independent start times per zone ⁴ Selectable for each program and by month

ESP-RZX Series Controller

4, 6, 8 Fixed Station Indoor or Outdoor Contractor Grade Controller for Residential Use

Features

- Flexible scheduling features that make the controller ideal for a wide variety of applications including residential and light-commercial irrigation systems
- Zone-to-Zone Copying. Copy a zone program to the next zone with 2 pushes of a button
- Easy to Use. Zone-based programming modeled after the simplicity of a DVR, so homeowners will get it
- 4, 6, and 8 Zone Models. Indoor and outdoor units available to meet any installation need
- Contractor Default™. Save your custom program into the memory of the controller with 2 pushes of a button
- Contractor Rapid Programming™. Automatically copies the watering start times and dates from zone 1 to all other zones at initial programming
- Zone-to-Zone Copying. Copy a zone program to the next zone with 2 pushes of a button
- Contractor Default™. Save your custom program into the memory of the controller with 2 pushes of a button
- Flexible Programming Features. Weather sensor bypass for all zones or by individual zone; 6 user-defined start times and flexible watering day options per zone
- Advanced Electronics. Integrated diagnostics to detect wiring problems and a non-volatile memory
- 4 Watering Days options by zone: Custom days of week, ODD calendar days, EVEN calendar days, Cyclic (every 1 – 14 days)
- Manually water ALL or SINGLE zone on demand
- Advanced Features : Electronic diagnostic circuit breaker , Contractor Rapid Programming™ and “Copy previous Zone” for faster initial set up, Contractor Default™ Save / Restore , Weather Sensor bypass, Weather Sensor bypass by Zone

Operating Specifications

- Station timing: 0 to 199 min
- Seasonal Adjust: -90% to +100%
- Independent schedule per zone
- 6 Start Times per zone
- Program Day Cycles include Custom days of the week, Odd, Even, & Cyclical dates
- Manual SINGLE zone
- Manual ALL zones

Electrical Specifications

- Input required: 120 VAC ± 10%, 60Hz
- International models; 230 VAC ± 10%, 50Hz
- Output: 24 VAC 650mA
- Power back-up: 2 x AAA batteries maintain time and date while nonvolatile memory maintains the programming

Certifications

- UL, cUL, CE, C-Tick, FCC Part 15, Industry Canada ICES-03, IRAM S-Mark, India STQC, Israel, SII, Saudi Arabia SASO, South Africa SABS

Models

Indoor Models

- RZX4i-120V: Indoor 4 Station ESP-RZX (120V)
- RZX6i-120V: Indoor 6 Station ESP-RZX (120V)
- RZX8i-120V: Indoor 8 Station ESP-RZX (120V)
- RZX4i-230V: Indoor 4 Station ESP-RZX (230V)
- RZX6i-230V: Indoor 6 Station ESP-RZX (230V)
- RZX8i-230V: Indoor 8 Station ESP-RZX (230V)
- RZ4i-230V: Indoor 4 Station ESP-RZ (230V)
- RZ6i-230V: Indoor 6 Station ESP-RZ (230V)
- RZ8i-230V: Indoor 8 Station ESP-RZ (230V)
- RZX4i-ARG: Indoor 4 Station ESP-RZX (Argentina Only)
- RZX6i-ARG: Indoor 6 Station ESP-RZX (Argentina Only)
- RZX8i-ARG: Indoor 8 Station ESP-RZX (Argentina Only)

Outdoor Models

- RZX4-120V: Outdoor 4 Station ESP-RZX (120V)
- RZX6-120V: Outdoor 6 Station ESP-RZX (120V)
- RZX8-120V: Outdoor 8 Station ESP-RZX (120V)
- RZX4-230V: Outdoor 4 Station ESP-RZX (230V)
- RZX6-230V: Outdoor 6 Station ESP-RZX (230V)
- RZX8-230V: Outdoor 8 Station ESP-RZX (230V)
- RZX4-AUS: Outdoor 4 Station ESP-RZX (Australia Only)
- RZX6-AUS: Outdoor 6 Station ESP-RZX (Australia Only)
- RZX8-AUS: Outdoor 8 Station ESP-RZX (Australia Only)



ESP-Me Series Controllers

The industry's most flexible irrigation controller solution. Supports up to 22 stations

Features

- Large LCD display with easy to navigate user interface
- Rain Sensor input with override capability
- Master valve/pump start circuit
- Non-Volatile (100 year) storage memory
- Remotely Programmable under 9V battery power (not included)
- Program based scheduling allows 4 individual programs with 6 independent start times per program for 24 total start times
- Watering schedule options: By days of week, ODD calendar days, EVEN calendar days, or Cyclic (every 1 – 30 days) Advanced Features
- Advanced diagnostics and short detection with LED alert
- Contractor Default™ Program Save/Restore saved program(s)
- Rain Sensor bypass by Station
- Total Run Time Calculator by program
- One Touch manual watering
- Delay Watering up to 14 days (applies only to stations not set to ignore Rain Sensor)
- Manual Watering option by program or station
- Seasonal Adjust applied to all programs or individual program
- Adjustable delay between valves (default set to 0)
- Master Valve on/off by station

Operating Specifications

- Station timing: 1 minute to 6 hours
- Seasonal Adjust: 5% to 200%
- Max operating temperature: 149°F (65°C)

Electrical Specifications

- Input Required: 120VAC ± 10%, 60Hz
(International models: 230/240VAC ± 10%, 50/60Hz)
- Master Valve/Pump Start Relay
- Operating Voltage: 24VAC 50/60Hz
- Max Coil Inrush: 11VA
- Max Coil Holding: 5VA
 - Idle/Off power draw 0.06 amps at 120VAC
- Power back-up not required. Nonvolatile memory permanently saves the current programming and a 10 year life lithium battery maintains the controllers time and date during power outages.

Certifications

- UL, cUL, CE, CSA, C-Tick, FCC Part 15b, WEEE, S-Mark, IP24

Dimensions

- Width: 10.7" (27,2 cm)
- Height: 7.7" (19,5 cm)
- Depth: 4.4" (11,2 cm)

North America Models (120VAC)

- Controller Base Models
 - ESP4ME1: 4 station indoor model
 - ESP4ME: 4 station outdoor model*
- Modules
 - ESPSM3: 3 station module
 - ESPSM6: 6 station module (compatible with ESP-Me Series controllers only)

Accessories

- PIGTAIL: UL approved pig tail

**Also available in 230VAC and 240VAC models*



ESP-Me Series Controller
and Modules

ESP-SMTe Smart Modular Control System

4 to 22 Station Indoor or Outdoor Smart Modular Control System for Residential and Light Commercial Use



Features

- English/Spanish Button easily switches the display text between languages
- Weather Sensor sends rainfall and temperature data to the controller
- Large LCD display with easy to use interface
- Non-Volatile (100- year) program memory
- Remotely Programmable under 9V battery power (not included)
- Programming tutorial assures efficient and accurate scheduling
- Watering occurs only as needed and can be restricted to selected days of the week, odd or even calendar days or at set intervals (cyclic)
- Grow-in watering option allows a time based schedule for new plants for a programmed period of time
- Cycle+Soak™ feature for each zone prevents runoff based on soil type, precipitation rate and landscape slope
- Any zone can be switched to Time Based programming (for example, to operate a pond pump)
- Copy Zone to Zone feature allows the contractor to copy a zone program from one zone to another
- Event Days Off allows you to select up to four specific dates to block watering
- Rainfall Shutdown suspends all irrigation if the measured rainfall exceeds a user set threshold
- Cold Weather Shutdown suspends all irrigation to prevent potential freeze damage
- Contractor Default™ allows the controller zone settings to be saved/restored
- Next Irrigation Estimate shows an estimated schedule up to three weeks in advance
- Weather Log holds historical weather data for 30 days
- Event Log by date or by zone
- Manual Watering allows immediate watering of a selected zone or all zones
- Enable or disable Master Valve by zone
- Advanced diagnostics and short circuit detection

Operating Specifications

- 2 Watering Windows per zone
- Fine Tune watering adjustment -60% to +60% by zone
- Programmable delay between zones (default set to 3 seconds)

Electrical Specification

- Input Required: 120VAC +/- 10%, 60 Hz
- Output: 25.5VAC 1A
- IP 24

- Valve/solenoid capacity (two 24VAC, 7VA solenoids plus a master valve)
- Nonvolatile memory saves programming
- 10 year life lithium battery maintains the controller's time and date
- Master Valve/Pump Start Relay:
 - Operating Voltage: 24VAC 50/60Hz
 - Max Coil Inrush: 11VA
 - Max Coil Holding: 5VA
- Idle/Off power draw 0.06 amps at 120VAC
- Certifications
 - WaterSense approved, meets EPA criteria for high-performing, water efficient products.
 - UL, cUL, FCC Part 15b

Dimensions

- Width: 10.7 in. (27,2 cm)
- Height: 7.7 in. (19,5 cm)
- Depth: 4.4 in. (11,2 cm)
- Mounting Bracket
 - Maximum reach: 7.0" (17.8 cm)

Models

- Control System Base Models (*includes ESP-SMTe controller & weather sensor*)
 - ESP4SMTEi – 4 station indoor* - 120V
 - ESP4SMTE – 4 station outdoor* -120V
- Upgrade Model (*includes ESP-SMTe controller panel & weather sensor*)
 - ESPSMTEUPG – Kit to Upgrade existing ESP-Modular or ESP-Me Controllers**
- Modules
 - ESPSM3 – 3-station expansion module
 - ESPSM6 – 6 station expansion module

* To expand up to 22 stations, use ESPSM3 or ESPSM6 modules – Station Expansion Modules

** Applies to ESP-M controllers manufactured after April, 2005

Note: All ESP-SMTe models come with a heavy-duty adjustable bracket and 25 feet of 18-2 UV-rated non-burial wire for connection between the controller panel and the weather sensor pod. Up to 200 feet of appropriate wire may be spliced to extend range.



ESP-SMTe Smart Modular Control System

ESP-LX Basic Controllers

The easiest to use commercial controller



Features

- Flexible features and modular options make the controller ideal for a wide variety of applications including light commercial, commercial, and industrial irrigation Systems
- ESP Extra-Simple Programming user interface and large LCD display with softkey text labels
- Simple, Three-Step Programming can be done using minimal dial positions. Additional programming options can be accessed through the Basic Setup and Station Timing dial positions
- Two Languages, One Dial- English and Spanish are both on one simple dial making it easy for everyone to install and maintain
- Larger Station Count compared to competitive commercial controllers. The ESP-LX Basic base model has 12 stations and has capacity for 48 stations using 4-, 8- and 12-station modules
- Water Management Features: SimulStations™ (Operate two stations simultaneously), Cycle+Soak™, Station Delay, Seasonal Adjust, Sensor & Master Valve Programmable by Station
- Contractor Default™ allows the user to create a customized default program that can be automatically recalled up to 90 days in the future. This allows a temporary schedule to be created for new seed or a fast fix
- Enhanced Diagnostic Feedback™ with RASTER™ Wiring Test with external alarm light and on-screen messaging alert the user of conditions that may disrupt controller operation

Electrical Specifications

- Input required: 120 VAC ± 10%, 60Hz
- Output: 26.5 VAC 1.9A
- Power back-up: Lithium coin-cell battery maintains time and date while nonvolatile memory maintains the programming
- Multi-valve capacity: Maximum 2 24 VAC, 7VA solenoid valves simultaneous operation including plus master valve

Certifications

- UL, CUL, CE, CSA, C-Tick, FCC Part 15

Controller Hardware

- Plastic, locking, UV resistant, wall-mount case
- Optional Metal/Stainless Steel Case & Pedestal
- 12-station base unit expandable to 48 stations with 4-, 8-, & 12-Station Modules

Models

- ESPLXBASIC: ESP-LX Basic 12 Station Controller, 120VAC
- ESPLXBFP: ESP-LX Basic Controller Front Panel
- LXBASEMOD: ESP-LX Series Base Module for LX Basic and non flow LXME
- ESPLXMSM4: 4-Station Module for ESP-LXME and ESP-LX Basic Controller
- ESPLXMSM8: 8-Station Module for ESP-LXME and ESP-LX Basic Controller
- ESPLXMSM12: 12-Station Module for ESP-LXME and ESP-LX Basic Controller



ESP-LX Basic Controller

ESP-LXME Controllers

Modular - Easily expandable from 8 or 12 stations to 48 stations with 4-, 8-, and 12-station modules



Features

- Plastic, locking, UV resistant, wall-mount case , Optional Metal and Stainless Steel Case & Pedestal
- 8- or 12-stations base unit expandable to 48 stations with 4-, 8- and 12-Station Modules
- Flow Smart Module™ factory installed or field upgradable
- Hot-swappable modules, no need to power down the controller to add/remove modules
- Dynamic station numbering eliminates station numbering gaps
- Weather Sensor input with override switch
- Master valve/pump start circuit
- 6 user-selectable languages
- Non-Volatile (100-year) program memory
- Standard 10kV surge protection
- Front panel is removable and programmable under battery power
- Compatible with Rain Bird Landscape Irrigation and Maintenance Remote

Water Management Features

- Optional Flow Smart Module™ with Learn Flow utility and flow usage totalizer
- FloWatch™ protection for high and low flow conditions with user defined reactions
- FloManager™ manages hydraulic demand, making full use of available water to shorten total watering time
- SimulStations™ are programmable to allow up to 5 stations to operate at the same time
- Station sequencing by station numbers or station priorities
- Water Windows by program plus Manual MV Water Window
- Cycle+Soak™ by station
- Rain Delay
- 365-Day Calendar Day Off
- Programmable Station Delay by program
- Normally Open or Closed Master Valve programmable by station
- Weather Sensor programmable by station to prevent or pause watering
- Program Seasonal Adjust
- Global Monthly Seasonal Adjust

Operating Specifications

- Station timing: 0 min to 12 hrs
- Seasonal Adjust; 0% to 300% (16 hrs maximum station run time)
- 4 independent programs (ABCD)
- ABCD programs can overlap
- 8 start times per program

- Program Day Cycles include Custom days of the week, Odd, Odd31, Even, & Cyclical dates
- Manual station, program, test program

Electrical Specifications

- Input required: 120 VAC \pm 10%, 60Hz (International models: 230 VAC \pm 10%, 50Hz; Australian models: 240 VAC \pm 10%,50Hz)
- Output: 26.5 VAC 1.9A
- Power back-up: Lithium coin-cell battery maintains time and date while nonvolatile memory maintains the programming
- Multi-valve capacity: Maximum five 24 VAC, 7VA solenoid valves simultaneous operation including the master valve, maximum two solenoid valves per station
- Certifications: UL, cUL, CE, CSA, C-Tick, FCC Part 15

Dimensions

- Width: 14.32 in. (36,4 cm)
- Height:12.69 in. (32,2 cm)
- Depth: 5.50 in. (14,0 cm)

Models

- ESP8LXME: 8-Station Controller, 120VAC
- ESP12LXMEF: 12-Station Controller with Flow Smart Module, 120VAC
- FSMLXME: Flow Smart Module for ESPLXME Controller
- ESPLXMSM4: 4-Station Module for ESP-LXME Controller
- ESPLXMSM8: 8-Station Module for ESP-LXME Controller
- ESPLXMSM12: 12-Station Module for ESP-LXME Controller
- ESPLXMEFP: ESPLXME Controller Front Panel Only

Optional Accessories

- LIMR-Kit: LIMR remote control Kit for Rain Bird Controllers (see page 89)
- Painted Metal and Stainless Steel Pedestal/Enclosure Options available (see page 95)
- ETC-LX: ET Manager Cartridge (see page 88)
- IQ Communication Cartridge (see page 99)
- Rain Bird FS-Series Flow Sensors (see page 91)



ESP-LXME Controller

ESP-LXD Decoder Controller

50 – 200 station capable Two-Wire Decoder Commercial Controller



Controller Features

- Plastic, locking, UV resistant, wall-mount case, Optional Metal and Stainless Steel Case & Pedestal
- Uses the same decoder hardware as MDC, MDC2 and SiteControl
- Supported decoders: FD-101TURF, FD-102TURF, FD-202TURF, FD-401TURF, FD-601TURF
- Also supports SD-210TURF sensor decoders (flow sensing and weather sensor support) and LSP-1 line surge protectors (one per 500 feet of two-wire path required)
- 50-station capability standard expandable to 200 stations with optional ESPLXD-SM75 modules
- Four sensor inputs (one wired plus up to three decoder-managed) with override switch
- Program backup and barcode decoder address entry with the optional PBC-LXD
- Six user-selectable languages
- Removable front panel is programmable under battery power
- Central Control capable with Rain Bird IQ v2.0 Communications Cartridges and software
- Compatible with Rain Bird Landscape Irrigation and Maintenance Remote - Flow Smart Module™ factory installed or field upgradable
- Advanced Features From Cycle+Soak™ to Contractor Default Program™, the ESP-LXD offers innovative features proven to cut installation expenses, troubleshooting time and water use

Operating Specifications

- Station timing: 0 min to 12 hrs
- Program level and global Monthly Seasonal Adjust; 0% to 300% (16 hrs maximum station run time)
- 4 independent programs (ABCD); ABC programs stack, ABCD overlap
- 8 start times per program
- Program Day Cycles include Custom days of the week, Odd, Odd no 31st, Even, and Cyclical dates
- Manual station, program, test program
- Certifications: UL, CE, CUL, C-Tick

Upgrade Options

- LXMM metal wall-mount case
- LXMM-PED metal pedestal
- ETC-LX ET Manager Smart Controller Cartridge
- IQ-NCC Network Communication Cartridge
- ESP-LXD-SM75 75-station module
- PBC-LXD Programming Backup Cartridge

Electrical Specifications

- Input required: 120 VAC ± 10%, 60Hz (International models: 230 VAC ± 10%, 50Hz; Australian Models: 240 VAC ± 10%, 50Hz)
- Power back-up: Lithium coin-cell battery maintains time and date while nonvolatile memory maintains the schedule
- Multi-valve station capacity: up to 2 solenoid valves per station; simultaneous operation of up to eight solenoids and/or master valves

Dimensions (W x H x D)

- 14.32" x 12.69" x 5.50" (36.4 x 32.2 x 14.0 cm)

Model

- ESP-LXD: 50-station, 120 VAC
- IESPLXD: 50-station for international markets, 230 VAC
- IESPLXDEU: 50-station for Europe, 230 VAC
- IESPLXDAU: 50-station for Australia, 240 VAC

Optional Accessories

- ESPLXD-SM75: 75-station module for ESP-LXD
- PBC-LXD: Program Backup Cartridge for ESP-LXD
- LIMR-KIT: LIMR remote control kit for Rain Bird controllers (see pg. 89)
- FD-TURF: two-wire decoders (see pg. 87)
- SD-210TURF: two-wire sensor decoder (see pg. 87)
- LSP1TURF: two-wire line surge protection (see pg. 87)
- DPU-210: two-wire decoder programming unit (see pg. 88)
- Painted Metal and Stainless Steel Pedestal/Enclosure Options available (see pg. 95)
- ETC-LX: ET Manager™ Cartridge for ESP-LX series controllers (see page 88)
- IQ-NCC: Network Communication Cartridge for ESP-LX Series Controllers (see page 99)
- See page 91 for information on Rain Bird FS-Series Flow Sensors

¹FD-TURF decoders include peel-off barcode address labels

²Barcode scanning pen not included – sold separately; Unitech MS100-2 recommended (www.ute.com)



ESP-LXD Decoder Controller

FD-TURF Two-Wire Decoders

SiteControl and ESP-LXD with Support for 1, 2, 4 or 6 Decoder Addresses

Features

- Select different two-wire decoders to operate one, two, four, or six valves. Five different decoder options let you choose the precise amount of landscape irrigation control you need
- Easy, cost-effective installation, expansion and upgrade between ESP-LXD and/or SiteControl systems
- Installed out of sight and protected from the elements and vandalism
- Enables advanced diagnostic and sensor features

Specifications

- **Mounting:** In valve box (recommended) or direct burial
- **Power Draw:**
 - FD-101TURF: 0.5 mA (idle) 18 mA (per active solenoid)
 - FD-102TURF: 0.5 mA (idle) 18 mA (per active solenoid)
 - FD-202TURF: 1 mA (idle) 18 mA (per active solenoid)
 - FD-401TURF: 1 mA (idle) 18 mA (per active solenoid)
 - FD-601TURF: 1 mA (idle) 18 mA (per active solenoid)
- **Dimensions:**
 - FD-101TURF: Length: 2.77 in. (70 mm), Diameter: 1.5 in. (40 mm)
 - FD-102TURF: Length: 3.35 in. (85 mm), Diameter: 1.77 in. (45 mm)
 - FD-202TURF: Length: 3.35 in. (85 mm), Diameter: 1.97 in. (50 mm)
 - FD-401TURF: Length: 3.94 in. (100 mm), Diameter: 2.56 in. (65 mm)
 - FD-601TURF: Length: 3.94 in. (100 mm), Diameter: 2.56 in. (65 mm)
- **Solenoids:**
 - FD-101TURF: 1 with individual control
 - FD-102TURF: 1 or 2 simultaneously
 - FD-202TURF: 1 to 4 simultaneously
 - FD-401TURF: 1 to 4 with individual control
 - FD-601TURF: 1 to 6 with individual control
- **Wires:**
 - FD-101TURF: Blue to cable, white to solenoid
 - FD-102TURF: Blue to cable, white to solenoid
 - FD-202TURF: Blue to cable, white and brown to solenoids
 - FD-401TURF: Blue to cable, color-coded to solenoids
 - FD-601TURF: Blue to cable, color-coded to solenoids
- **Surge Protection: One of the following is required every 500 ft. along two-wire path (40 V, 1.5 kW transil)**
 - LSP-1 Line Surge Protector
 - FD-401TURF with built in surge protection
 - FD-601TURF with built in surge protection

Note: Minimum 10ohms resistance grounding required at controller and each surge protector

- **Input Fuse (FD-401TURF and FD-601TURF only):** 300-500 mA, thermal
- **Electrical Input:**
 - Maximum voltage: 36 Vpp
 - Maximum load:
 - FD-101TURF: 1 Rain Bird solenoid (one per address)
 - FD-102TURF: 2 Rain Bird solenoids (two per address)
 - FD-202TURF: 4 Rain Bird Solenoids (two per address)
 - FD-401TURF: 4 Rain Bird Solenoids (one per address)
 - FD-601TURF: 6 Rain Bird solenoids (one per address)
- **Decoder/Solenoid Wires:**
 - Electrical resistance: Max. 3 ohms
- **Maximum Distance Decoder/Solenoids:**
 - Cable length: 14 gauge, 456 feet
- **Wiring:** 2 x 14-gauge (1.5 mm2) solid copper, UF insulated type
- **Environment:**
 - Working range: 32° to 122° F (0° to 50° C)
 - Storage range: -4° to 158° F (-20 to 70° C)
 - Humidity: 100%

Note: Rain Bird recommends using 3M DBR/DBY waterproof connectors for all connections.
Note: FD-Series Decoders are not compatible with residential valves like the Rain Bird HV, DV, DVF, ASVF, JTV, & JTVF.

Models

- FD-101TURF: Field Decoder interfacing signal line and valve
- FD-102TURF: Field Decoder interfacing signal line and valve or one pair of valves
- FD-202TURF: Field Decoder interfacing signal line and 2 valves or 2 pair of valves
- FD-401TURF: Field Decoder interfacing signal line and up to 4 individual valves
- FD-601TURF: Field Decoder interfacing signal line and up to 6 individual valves
- LSP-1TURF: Line Surge Protection
- SD-210TURF: Sensor Decoder interfacing signal line and analog or digital decoders



Decoders

DPU-210 Decoder Programming Unit

For ESP-LXD, MDC/MDC2 and SiteControl FD-Turf Two-Wire Decoders

- Decoder Programming Unit tests and verifies operation of the ESP-LXD, MDC/MDC2, or SiteControl FD Series Field Decoders. Also allows for re-programming decoder addresses for maximum site set-up flexibility



DPU-210

ET Manager™ Cartridge

Upgrades Any ESP-LX Series Controller to an ET/Weather-Based Irrigation Controller



Features

- Water Savings of 20 – 50% over traditional time based irrigation control with real-time adjustments to the irrigation schedule based on hourly weather data
- Measures the four key components of ET: solar radiation, relative humidity, wind, and temperature, as well as effective rainfall
- Four separate moisture balances are maintained. One for each program or hydrozone to efficiently water varied plant types (example: turf, shrubs, trees, annuals, etc)
- Rain interrupt to prevent irrigation during rain events
- Wind interrupt prevent overspray during high wind conditions
- Installs in seconds with no tools into all ESP-LX Series controllers snaps into a dedicated bay on the back of the controller faceplate
- The ET Manager™ Cartridge uses the Weather Reach™ signal - Eliminates the need to travel to controller sites to make adjustments or programming changes, contributing to significant labor savings
- ETC-LX kit includes ET Manager™ Cartridge, receiver antenna, manual, and ET Manager™ Resource CD which will help schedule irrigation run times based on landscape parameters

Operating Specifications

- Electrical power is provided by the LX Controller
- Operating Temperature Range 5° F-149° F (Radio reception operating temperature: 32° F - 122° F)
- Tipping Rain Gauge wire: 18 – 26 AWG

Models

- ETC-LX: ET Manager Cartridge for LX Controllers
- ETM-RMK: Remote antenna mount for ETC-LX*
- ETM-RG: Tipping Rain Gauge

** Allows the antenna to be remotely mounted for better signal reception. ET Manager™ has a built in antenna but locations with a weak paging signal may require an external antenna*

For more information call the ET Manager™ Hotline: 1-877-351-6588



ETC-LX
ET Manager™ Cartridge

Landscape Irrigation and Maintenance Remote 3.0 (LIMR)

Efficient Rain Bird irrigation system operation and head alignment

Features

- Maintaining Rain Bird system operation and head alignment is easier and faster than ever because you no longer have to walk to the clock to turn zones on or off. A single crew member can activate zones, blow out systems and perform other winterization or maintenance tasks
- Install the receiver in seconds with just one hand and operate up to 255 zones
- Skip to any zone by entering its number. No need to scroll through zones in consecutive order
- Run a system test, specifying how many minutes, which zone to start with and which zone to end with
- Two-way communication between the remote and the controller allows remote activity information to be displayed on the handheld device
- Custom names can be assigned to 20 different receivers for easy identification. Each handheld remote can control up to 128 different receivers simultaneously
- Operating range up to 1.5 miles (2.4 km) line of sight. (Operating range may be reduced when obstructions are introduced between remote system components)
- Remarkably simple interface and easy-to-follow, on-screen instructions, such as: Run a system test ,Activate a zone, Run a program , Custom receiver naming , Skip to any zone by entering its number
- Irrigation remote compatible with ESP-Me, ESP-SMTe, and ESP-RZX, ESP-SMT, ESP-LX Basic, ESP-LX, ESP-LX+, ESP-LXME, ESP-LXMEF, ESP-LXD, and ESP-LX Modular Controllers

Operating Specifications

- Electrical power is provided by the ESP-LX Series Controller
- Operating Temperature Range 5°F-149°F (Radio reception operating temperature: 32°F - 122°F)

Specifications

- Operating range: Up to 1.5 miles (2.4 Km) line of sight
- Two-way communication using FCC certified 900MHz radios
- UL Recognized
- Zone capability: 1 to 255
- Battery type: 3 – AA Alkaline
- Custom names can be assigned to 20 different receivers for easy identification
- Each handheld remote can control up to 128 different receivers simultaneously

Dimensions

- KIT: 12" (30.5cm) H x 16.75" (42.5cm) W x 2.75" (7.0cm) D
- TX: 11.2" (28.5 cm) H x 3.6" (9.3cm) W x 1.6" (4.1cm) D
- RX: 6.2" (15.8 cm) H x 4.1" (10.5cm) W x 1.22" (3.1cm) D

Models (US and Canada only)

- LIMRKIT: includes transmitter, receiver, LIMRQC603, LIMRQC503, batteries, and a durable plastic carrying case
- LIMRRX: Receiver
- LIMRQC503: 5 pin Quick Connect, 3 feet long
- LIMRQC603: 6 pin Quick Connect, 3 feet long



Landscape Irrigation and Maintenance Remote (LIMR)

TBOS-II™

Commercial Control for Battery-Powered Systems

Features

- Convenient durable option for providing uninterrupted irrigation while AC-power is not available
- Field transmitter and control module have external optical connectors for easy plug-in
- Seven advanced programming features, the TBOS-II™ cuts setup time and eliminates repeat trips to the controller, resulting in water-efficient programs and lower operating expenses
- Master Valve: Extra support for stations that require a back-up to minimize water leaks or need extra water pressure
- Basic programming includes 3 independent programs with flexible days cycles including custom even, odd, odd-31 and 1-6 day program cycles for maximum flexibility
- 8 start times per program per day and Run-time from 1 minute to 12 hours in 1-minute increments
- Independent station operation allows simultaneous start times or sequential start times based on system hydraulic capacity
- One TBOS field transmitter programs an unlimited number of TBOS Control Modules
- Field transmitter and control module have external infrared connectors for easy plug-in ESP-LXD, and ESP-LX Modular Controllers

Valve Compatibility

- TBOS potted latching solenoid is compatible with all Rain Bird valves in the DV, DVF, ASVF, PGA, PEB, PESB, GB, EFB-CP, BPE and BPES series
- The TBOS solenoid adapters will adapt the potted latching solenoid for use in retrofit applications with non-Rain Bird valves such as Irritrol® (Hardie/Richdel) and Buckner® valves or Champion® and Superior® valve actuators Tipping Rain Gauge wire: 18 – 26 awg

TBOS-II Control Module

- Available in 4 models: 1, 2, 4 and 6 stations
- Operates one valve per station
- Station timing: 1 minute to 12 hours in 1-minute increments with a 365-day calendar. Stations can be assigned to multiple programs
- Active sensor connection accommodates Rain Bird® RSD-BEX Rain Sensor
- Operates with only one 9V alkaline battery (Energizer™ and Duracell™ are recommended) type 6AM6 (international standard) or 6LR61 (European standard): battery not included
- Battery life is one year with a high-quality 9V alkaline battery
- IP-68 rated waterproof case for reliable operation under water
- Dimensions: 3.8 x 5.1 x 2 inches (9.5 x 13.0 x 5.3 cm)
- Weight: 17.64 ounces (500 g)
- Maximum wire run between the module and solenoid:

Wire Size	Maximum Distance
18 AWG (0.75 mm ²)	32 ft (10 m)
16 AWG (1.5 mm ²)	100 ft (30 m)

- C-Tick approved

TBOS-II Field Transmitter

- Field transmitter required for programming control module
- Dimensions: 2.8 x 6.3 x 1.2 inches (7.0 x 16.0 x 3.0 cm)
- Weight: 8.81 ounces (250 g)
- Operating temperature: 14 to 149° F (-10° to 65° C)
- C-Tick approved

TBOS Potted Latching Solenoid

- Two 18 gauge (0.75 mm²) wires are supplied: 23.6 inches (60 cm) long
- Fits Rain Bird valves: DV, DVF, ASVF, PGA, PEB, PESB, GB, EFB-CP, BPE and BPES Series
- 150 psi (10 bar) maximum operating pressure
- Dimensions: 1.4 x 2.4 x 1.5 inches (4.0 cm x 6.0 cm x 4.2 cm)

TBOS Solenoid Adapters

- Easy to install
- Black adapter for plastic valves allows the TBOS potted latching solenoid to be used with selected Irritrol (Hardie/Richel) and Buckner valves
- Brown adapter for brass valves allows the TBOS potted latching solenoid to be used with selected Champion and Superior valve actuators

Models

- TBOS-II Control Modules:
 - TBOS2CM1: 1 station control module
 - TBOS2CM2: 2 station control module
 - TBOS2CM4: 4 station control module
 - TBOS2CM6: 6 station control module
- TBOS-II Field Transmitter:
 - TBOS2FTUS: Field Transmitter (US)
 - TBOS2FTSAU: Field Transmitter (AUS)



TBOS-II Control Module and Field Transmitter



TBOS Potted Latching Solenoid and Solenoid Adapters

Flow Sensors and Transmitters

Maxicom², SiteControl, IQ, ESP-LX Series Controllers or IQ™

Features (Sensors)

- Simple six-bladed impeller design
- Designed for outdoor or underground applications
- Available in PVC, brass or stainless steel construction
- Pre-installed in tee or saddle mounted insert versions

Features (Transmitters)

- Reliable solid-state design, available with or without LCD display
- Easy-to-program, menu-driven design
- Programmable from a computer (PT322 – Maxicom and SiteControl Systems only – not required for ESP-LXMEF or ESP-LXD)
- Operates with MAXILink™ and (hard-wire) two-wire satellite systems
- Mounted in optional NEMA enclosure (PT3002 only)

Operating Specifications (Sensors)

- Accuracy: $\pm 1\%$ (full scale)
- Velocity: 1/2-30 feet (0.15 - 9.2 meters) per second depending on model
- Pressure: 400 psi (27.5 bars) (max) on metal models; 100 psi (6.9 bars) (max) on plastic models
- Temperature: 220° F (105° C) (max) on metal models; 140° F (60° C) (max) on plastic models

Operating Specifications (Transmitters)

- Input required:
 - 12-30 VDC/VAC on PT322
 - 10.5-26 VAC (12-24 VAC rec.) on PT 1502
 - 12-24 VAC/VDC on PT 3002
- Output: Pulse output
- Operating Temp: -4° F-158° F (-20° C to 70° C)
- Units: Domestic and International units available on PT3002

Dimensions

- PT322: 3.65" x 1.75" x 1.0" (93mm x 44mm x 25mm)
- PT3002: 3.78" x 3.78" x 2.21" (96mm x 96mm x 56mm)
- FS075P: 3.31" x 3.85" x 1.05" (84mm x 98mm x 27mm)
- FS100P: 3.50" x 3.94" x 1.315" (89mm x 100mm x 33mm)
- FS150P: 5.0" x 5.16" x 2.38" (127mm x 131mm x 60mm)
- FS200P: 5.63" x 5.64" x 2.88" (143mm x 143mm x 73mm)
- FS300P: 6.50" x 6.83" x 4.23" (165mm x 173mm x 107mm)
- FS400P: 7.38" x 7.83" x 5.38" (187mm x 199mm x 137mm)
- FS100B: 5.45" x 4.94" x 2.21" (138mm x 126mm x 56mm)
- FS150B: 6.5" x 5.19" x 2.5" (165mm x 132mm x 64mm)
- FS200B: 4.25" x 8.35" x 2.94" (108mm x 212mm x 75mm)
- FS350B: 7.13" x 3"(diameter) (181mm x 76mm (diameter))
- FS350SS: 7.13" x 3"(diameter) (181mm x 76mm (diameter))

Configuration

- **For (Hard Wire) Two-Wire Satellite Systems (Maxicom² and SiteControl)**, the Flow Sensor is installed with a Pulse Transmitter and a Rain Bird Pulse Decoder (DECPULLR)
- **For Link Radio Satellite Systems (Maxicom² and SiteControl)**, the Flow Sensor is installed with a Pulse Transmitter (no pulse decoder required)
- **For ESP-SITE Satellite Systems (Maxicom²)**, the Flow Sensor is installed with a Pulse Transmitter (no decoder required)
- **For SiteControl Decoder Systems**, the Flow Sensor is installed with a Two-Wire Decoder Sensor Decoder (SD210TURF)
- **For ESP-LXD Decoder Systems**, the Flow Sensor is installed with a Two-Wire Decoder Sensor Decoder (SD210TURF)
- **For ESP-LXMEF Systems**, the Flow Sensor is attached to the FSM-LXME Flow Smart Module
- Surge protection (FSSURGEKIT) is recommended for Maxicom & SiteControl systems – One at the Pulse Transmitter, and if more than 50' of wire run, one at the Flow Sensor. FSSURGEKIT is not compatible with ESP-LXMEF and ESP-LXD Controllers



Flow Sensors



Flow Sensor Transmitters and Accessories



Flow Sensors and Transmitters (cont.)

Models

Brass TEE's

- FS200B: 2" (50mm) Brass Tee Flow Sensor
- FS150B: 1 1/2" (40mm) Brass Tee Flow Sensor
- FS100B: 1" (25mm) Brass Tee Flow Sensor

Plastic TEE's

- FS400P: 4" (110mm) PVC Tee Flow Sensor
- FS300P: 3" (75mm) PVC Tee Flow Sensor
- FS200P: 2" (50mm) PVC Tee Flow Sensor
- FS150P: 1 1/2" (40mm) PVC Tee Flow Sensor
- FS100P: 1" (25mm) PVC Tee Flow Sensor
- FS075P: 3/4" (20mm) PVC Tee Flow Sensor

Inserts

- FS350SS: 3" and higher, Stainless Steel Insert
- FS350B: 3" and higher, Brass Insert
- FSTINSERT: Replacement insert for Tee type sensors

Pulse Transmitters (not necessary with LX Controllers)

- PT322: Pulse Transmitter, no display
- PT3002: Pulse Transmitter, LCD display
- PT322SW: PT322 Pulse Transmitter programming software

Accessories

- PTPWRSUPP: Pulse Transmitter power supply
- NEMACAB: NEMA Enclosure for PT3002
- FSSURGEKIT: Flow Sensor surge protection kit
- DECPULLR: Pulse Decoder for two-wire satellites
- SD210TURF: Sensor Decoder for decoder systems
- FSM-LXME: Flow Smart Module for ESP-LXME Series Controllers

Rain Bird Flow Sensor Suggested Operating Range

The following tables indicate the suggested flow range for Rain Bird Flow Sensors. Rain Bird Sensors will operate both above and below the indicated flow rates. However, good design practice dictates the use of this range for best performance. Sensors should be sized for flow rather than pipe size.

Model	Suggested Operating Range (Gallons / Minute)	Suggested Operating Range (Liters / Minute)	Suggested Operating Range (Cubic Meters / Hour)
FS050P	1.9 - 18.9	7.2 - 71.7	0.43 - 4.3
FS075P	3.3 - 33.2	12.6 - 125.8	0.75 - 7.5
FS100P	5.4 - 53.9	20.4 - 204	1.2 - 12.2
FS150P	5 - 100	18 - 378	1.1 - 22.7
FS200P	10 - 200	36 - 756	2.3 - 45.4
FS300P	20 - 300	78 - 1134	4.5 - 68.1
FS400P	40 - 500	150 - 1890	9.1 - 113.6
FS100B	2 - 40	6 - 150	0.5 - 9
FS150B	2 - 82.6	6.3 - 313	0.4 - 18.7
FS200B	4.9 - 294	18.5 - 1112	1.1 - 66.7
FS350B	Depends on Pipe Type and Size - please reference Flow Sensors tech spec (D37137F)		
FS350SS			

RSD-BEx / RSD-CEx

Wired Rain Sensor

Features and Benefits

- Automatic rain shutoff prevents overwatering due to natural precipitation
- Robust, reliable design reduces service call backs
- Moisture sensing disks work in a variety of climates
- Different sensor mounts permit speed and flexibility on the job site
- Latching hinge maintains alignment

Mechanical Properties

- Multiple rainfall settings from 1/8" - 3/4" (5 - 20 mm) are quick and easy with just the twist of a dial
- Adjustable vent ring helps control drying time
- High-grade, UV resistant polymer body resists the elements
- Available in rugged bracket version (RSD-BEx model comes with 5" latching aluminum bracket) or conduit version (RSD-CEx) for a clean and professional look
- Not compatible with ESP-SMT or ESP-SMTe controllers

Electrical Specifications

- Application: Suitable for low voltage 24 VAC control circuits and 24 VAC pump start relay circuits*
- Switch electrical rating: 3A @ 125/250 VAC
- Capacity: Electrical rating suitable for use with up to ten 24 VAC, 7 VA solenoid valves per station, plus one master valve
- Wire: 25' (7.6 m) length of #20, 2 conductor UV resistant extension wire
- UL, cUL listed; CE, C-Tick approved

* Not recommended for use with high voltage pump start, pump start relay circuits or devices.

Dimensions

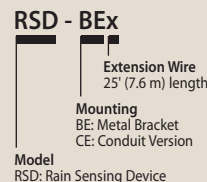
- RSD-BEx
 - Overall length: 6.5" (16.5 cm)
 - Overall height: 5.4" (13.7 cm)
 - Bracket hole pattern: 1.25" (3.2 cm)
- RSD-CEx
 - Overall length: 3" (7.6 cm)
 - Overall height: 2.75" (7 cm)

Models

- RSD-BEx: Rain sensor w/ latching bracket, extension wire
- RSD-CEx: Rain sensor w/ threaded adapter, extension wire



How To Specify



WR2 Series Wireless Rain/Freeze Sensors



Superior responsiveness to rainfall and cold temperatures, save up to 35% on water usage

Features & Benefits

- Enhanced antenna array provides superior signal reliability that overcomes most line-of-sight obstructions
- Sensor signal strength indicator enables one person set up, reducing installation time
- Convenient adjustment and monitoring of rain or freeze settings at the controller interface
- Simple battery replacement requiring no tools or need to disassemble sensor
- Highly intuitive icon-driven controller interface simplifies programming
- Easy to install, self-leveling sensor bracket mounts to flat surfaces or rain gutters
- Antennas concealed within the units for greater visual appeal and product robustness
- "Quick Shut Off" interrupts active irrigation cycle during a rain event

Electrical Specifications

- Application: suitable for use with 24 VAC controllers (with or without pump start / master valve)
- Electrical rating suitable for use with up to six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA
- Controller Interface Wire: 30" (76 cm) length of #22 gauge (0.64 mm) UV resistant extension wire
- Certifications: UL, cUL, CE, C-Tick, and WEEE
- FCC approved spread spectrum 2 way radio transceivers with FCC Class B approvals
- Signal transmission distance of 700' Line of Sight
- Battery life: four or more years under normal operating conditions
- 6 KV surge / lightning protection

Mechanical Properties

- Adjustable rainfall settings from 1/8" – 1/2" (3 – 13 mm)
- Adjustable low temperature settings from 33°F – 41°F (0.5° – 5°C)
- Three irrigation modes to select: Programmed, Suspend Irrigation for 72 hours, Override sensor for 72 hours
- "Quick Shut Off" suspends active irrigation cycle within approximately two minutes
- High-grade, UV resistant polymer units resist harmful environmental affects

Replacement or Spare Parts

- WR2 Battery - #651009S
- WR2 Disk Assembly - #637810S

Models

- North America (916 MHz)
 - WR2-RC: Rain Combo
 - WR2-RFC: Rain/Freeze Combo
 - WR2-RFI: Rain/Freeze Controller Interface Only
 - WR2-RFS: Rain/Freeze Sensor Only
- International (868 MHz)
 - WR2-RFC-868: Rain/Freeze Combo



Controllers

Step 1



Program in seconds

Step 2



Determine best sensor location

Step 3



Install sensor easily using mounting bracket

SMRT-Y Soil Moisture Sensor Kit

Accurate • Reliable • Smart

Features and Benefits

- Turns any controller into a water saving smart controller
- Healthier landscapes less prone to nutrient depletion, fungus and shallow root growth
- Typical water savings exceed 40%
- TDT digital sensor enables highly accurate readings that are independent of soil temperature and electrical conductivity (EC)
- Displays soil moisture content, soil temperature and EC
- Corrosion-resistant in-ground sensor made of high-grade 304 stainless steel

Operating Specifications

- 25 Volts AC at 12W
- Operating temperature: -4°F to 158°F (-20°C to 70°C)
- Survival temperature: -40°F to 185°F (-40°C to 85°C)
- Certifications: UL, CUL, C-TICK

Dimensions

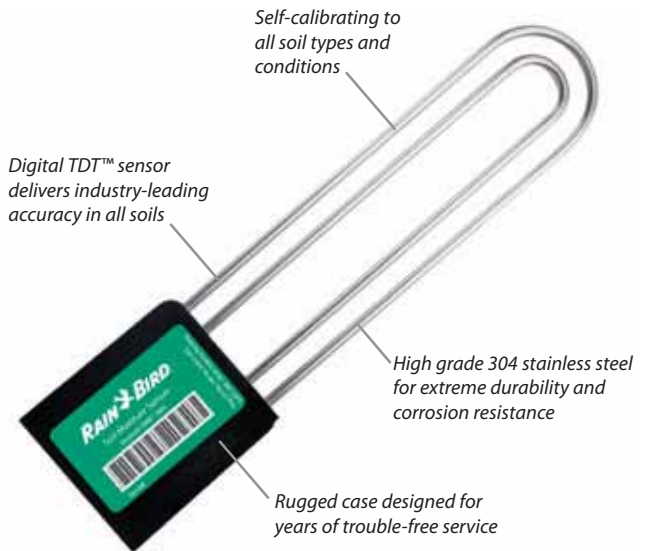
- **Sensor Control**
 - Width: 3.0" (76mm); H: 3.0" (76mm); D: 0.75" (19mm)
- **In-Ground Soil Moisture Sensor** (without wires)
 - W: 2.0" (50mm); L: 8.0" (200mm); D: 0.5" (12mm)

SMRT-Y Kit

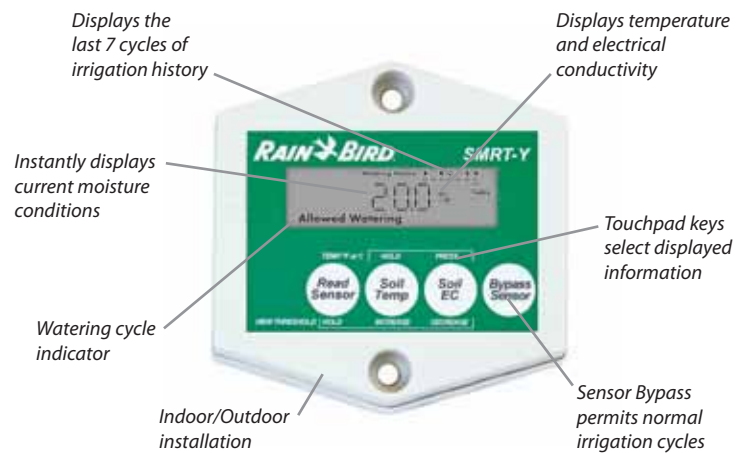
- **Includes**
 - Controller User Interface
 - In-Ground Soil Moisture Sensor
 - Anodized, rust-proof screws, 1.5" (two per package)
 - Wire nuts – 5 blue, 2 gray, 1 yellow
 - Multilingual instruction manual, "Quick Start" Guide and Soil Moisture sticker

Models

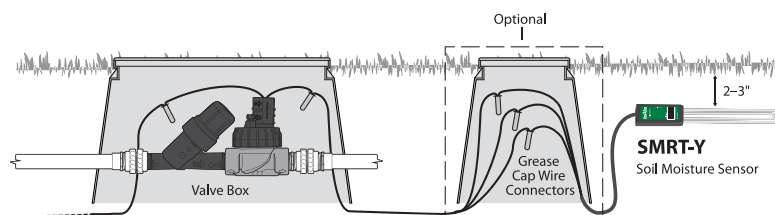
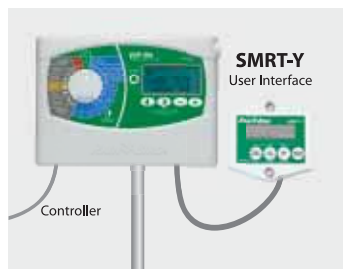
- SMRT-Y: Soil Moisture Sensor Kit
- SMRT-YI: International Soil Moisture Sensor Kit



Sensor



Controller



Controller Accessories

PBC-LXD Programming Backup Cartridge for ESP-LXD, Controller Pedestals, Pigtail

PBC-LXD Programming Backup Cartridge for ESP-LXD

Provides program backup and restore and barcode scanning capability for the ESP-LXD controller

Upgrade Kit Features

- Provides 8 full backups, including all programs, flow information and decoder addresses – allows you to easily archive 8 different controllers – restoring all information typically takes two minutes or less
- Snaps into the back of the ESP-LXD front panel; installs without tools; no additional enclosures or external wiring required
- Kit includes cable for interface to barcode scanning pen (pen not included) – allows you to quickly scan decoder addresses into the ESP-LXD controller during installation to save you time

Model

- PBC-LXD (works with all versions of the ESP-LXD controller)



PBC-LXD Cartridge

Pigtail

Features

- 6-feet (1.8 m) long
- Three 16 gauge stranded conductor wires
- 90 degree molded plug type NEMA 5-15P
- Gray color

Model

- PIGTAIL



PIGTAIL

Controller Pedestals

Pedestals for ESP-LX Series, ESP-MC, ESP-SAT, ESP-SITE, and CCU

Features

- Includes all necessary mounting bolts, nuts, and washers

Specifications

- Material: Powder-coated steel and stainless steel
- Field wiring connection: In controller

Dimensions

Model	Height	Width	Depth
• PED-DD16	23½" (59.7 cm)	10½" (26.7 cm)	5" (12.7 cm)
• LXMM	12⅞" (32.7 cm)	14½" (36.8 cm)	7¾" (19.7 cm)
• LXMMPED	28" (71.1 cm)	14¼" (36.2 cm)	7¼" (18.4 cm)
• LXMMSS	12⅞" (32.7 cm)	14½" (36.8 cm)	7¾" (19.7 cm)
• LXMMSSPED	28" (71.1 cm)	14¼" (36.2 cm)	7¼" (18.4 cm)

Model

- PED-DD16: Pedestal for ESP-SAT, ESP-SITE, and CCU
- LXMM: Metal Cabinet for ESP-LX Series Controllers*
- LXMMPED: Metal Pedestal for ESP-LX Series Controllers*
- LXMMSS: Stainless Steel Metal Wall Mount Enclosure for ESP-LX Series Controllers
- LXMMSSPED: Stainless Steel Metal Pedestal for ESP-LX Series Controllers

* **Note:** Metal cabinets and pedestals are not standard on ESP-LX Series controllers and must be purchased separately. LXMMPED requires LXMM, and LXMMSSPED requires LXMMSS.



PED-DD16 Shown with ESP-12 SAT-2W



LXMMPED Shown with ESP-LXME in LXMM Metal Cabinet