

Water Management Features

- Learn Flow utility and flow usage totalizer help optimize water usage
- FloWatch™ protection for high and low flow conditions set by the user
- FloManager™ manages hydraulic demand, make full use of available water to turn on as many stations as possible without exceeding water supply and reducing the total time to complete irrigation cycles.
- SimulStations™ allows stations to operate at the same time; up to 8 with LX-IVM and 16 with LXIVM Pro
- Cycle+Soak™ by station
- Rain Delay up to 30 days
- 365-Day Calendar Day Off (up to 5 days)
- Station Delay by program
- Normally Open or Normally Closed Master Valves programmable by station; up to 5 with LX-IVM and 10 with LX-IVM Pro
- Optional Weather Sensors are programmable by station to prevent or pause watering; up to 4 with LX-IVM and 8 with LX-IVM Pro
- Seasonal Adjust by Program or by Month

Environmental

- Operating Temperature
 - Operating temperature range: 14°F to 149°F (-10°C to 65°C)
- Operating Humidity
 - Operating humidity range: 95% max at 40°F to 120°F (4°C to 49°C) in a non-condensing environment
- Storage Temperature
 - Storage temperature range: -40°F to 150°F (-40°C to 66°C)
- Upgrade Options
 - IQ-NCC Network Communication Cartridge
 - LXIVM Pro Panels (for regular 60 station controllers)

Electrical Specifications

- Power Supply Voltage: 120 VAC ± 10%, 60Hz
- Power back-up: Lithium coin-cell battery maintains time and date while nonvolatile memory maintains the schedule
- Simultaneous operation of up to eight (IVM) or sixteen (IVM Pro) Stations plus any corresponding 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

- ESPLXIVM: Domestic Version 120VC
- ESPLXIVMP: Domestic Version (Pro) 120V

Accessories

- IVM Field Devices* (see next page)
- Painted Metal and Stainless Steel Pedestal/Enclosure Options available (see pg. 101)
- IQ-NCC: Network Communication Cartridge for ESP-LX Series Controllers (see pg. 112)
- See page 104 for information on Rain Bird FS-Series Flow Sensors
- Pump Start Relays (PSR110-IVM or PSR220-IVM)

** IVM Field devices include peel-off barcode address labels*

For more information call the ESP-LX Hotline: 1-866-544-1406

Controllers



LXMMSSPED Shown with ESP-LXIVM in LXMMSS Stainless Steel Cabinet

ESP-LXD Decoder Controller

50 – 200 station capable Two-Wire Decoder Commercial Controller

Controller Features

- 50-station capability standard expandable to 200 stations with optional ESPLXD-SM75 modules
- Four available sensor inputs (one wired plus up to three decoder-managed) with override switch
- Five flow sensors supported
- Supported decoders: FD-101TURF, FD-102TURF, FD-202TURF, FD-401TURF, FD-601TURF
- 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)
- Central Control capable with Rain Bird IQ Communications Cartridges and software (see pg. 112)
- 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
- Program backup and barcode decoder address entry with the optional PBCLXD
- Six user-selectable languages
- Removable front panel is programmable under battery power
- Plastic, locking, UV resistant, wall-mount case, Optional Metal and Stainless Steel Case & Pedestal
- Compatible with Rain Bird Landscape Irrigation and Maintenance Remote - Flow Smart Module™ factory installed or field upgradable
- Plastic, locking, UV resistant, wall-mount case, Optional Metal and Stainless Steel Case & Pedestal

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

- cULus, CE, IPX4. For current certifications visit: www.rainbird.com/esplxld

Works with **iQ4**

Allows users to control/monitor 1 to 1000s of controllers from their computer or mobile device



ESP-LXD Decoder Controller



LXMMSSPED Shown with ESP-LXD in LXMMSS Stainless Steel Cabinet

Controllers

PBC-LXD, Controller Pedestals
DPU-210 Decoder Programming Unit

www.rainbird.com/controllers

PBCLXD Programming Backup Cartridge for ESP-LXD

Provides program backup and restore and barcode scanning capability for the ESP-LXD controller (not compatible with ESP-LXME or ESP-LX Basic)

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

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



PBCLXD Cartridge

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
• LXMM	12 $\frac{7}{8}$ " (32.7 cm)	14 $\frac{1}{2}$ " (36.8 cm)	7 $\frac{3}{4}$ " (19.7 cm)
• LXMPED	28" (71.1 cm)	14 $\frac{1}{4}$ " (36.2 cm)	7 $\frac{1}{4}$ " (18.4 cm)
• LXMMSS	12 $\frac{7}{8}$ " (32.7 cm)	14 $\frac{1}{2}$ " (36.8 cm)	7 $\frac{3}{4}$ " (19.7 cm)
• LXMMSPED	28" (71.1 cm)	14 $\frac{1}{4}$ " (36.2 cm)	7 $\frac{1}{4}$ " (18.4 cm)

Model

- LXMM: Metal Cabinet for ESP-LX Series Controllers*
- LXMPED: Metal Pedestal for ESP-LX Series Controllers*
- LXMMSS: Stainless Steel Metal Wall Mount Enclosure for ESP-LX Series Controllers
- LXMMSPED: 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. LXMPED requires LXMM, and LXMMSPED requires LXMMSS.



LXMMSPED Shown with ESP-LXIVM in LXMMSS Stainless Steel Cabinet

Controllers

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

Controller Compatibility Matrix

Accessory	Description	ESP9V	TBOSBT	ESPTM2	ESPME	ESPM3	ESPLXME	ESPLXMEF	ESPLXD	ESPLXIVM	ESPLXIVMP
Weather Sensors & Stations											
RSD-BEx	Wired Rain Sensor	•	•	•	•	•	•	•	•	•	•
WR2	Wireless Rain/Freeze Sensor			•	•	•	•	•	•	•	•
SMART-Y	Soil Moisture Sensor			•	•	•					
ANEMOMETER	Wind Speed Sensor						• ¹	• ¹	• ¹	• ¹	• ¹
Flow Meters & Sensors											
MJ100B	1" Brass Water Meter					•		•	•	•	•
ICWM	Internet Connected Water Meter							•	•	•	•
FS100P	1" PVC Tee Flow Sensor					•		•	•	•	•
FS150P	1-1/2" PVC Tee Flow Sensor					•		•	•	•	•
FS200P	2" PVC Tee Flow Sensor					•		•	•	•	•
FS300P	3" PVC Tee Flow Sensor					•		•	•	•	•
FS400P	4" PVC Tee Flow Sensor					•		•	•	•	•
FS100B	1" Brass Tee Flow Sensor					•		•	•	•	•
FS150B	1-1/2" Brass Tee Flow Sensor					•		•	•	•	•
FS200B	2" Brass Tee Flow Sensor					•		•	•	•	•
FSIN SERT	Replacement insert for tee sensors					•		•	•	•	•
FS350B	Insert Flow Sensor					•		•	•	•	•
Pulse Monitor/Transmitters											
PT322	Pulse Transmitter Flow										
PT5002	Flow Monitor/Pulse Transmitter Flow										
PT5002	Flow Monitor/Pulse Transmitter Wind						•	•	•	•	•
Sensor Decoders/Inputs											
SD210TURF	Sensor Decoder								•		
LXIVMSEN	I/M Sensor Input									•	•
Modules											
ESPSM3	ME 3-Station Module				•	•					
ESPSM6	ME 6-Station Module				•	•					
ESPLXMSM8	LXME 8-Station Module						•	•			
ESPLXMSM12	LXME 12-Station Module						•	•			
LXBASEMOD	LXME Base Module						•				
FSMLXME	LXME Flow Smart Module						•	•			
ESPLXDMS75	LXD 75-Station Module								•		
MODS0LXD	LXD 2-Wire Module								•		
LXIVM2WMOD	I/M 2-Wire Module									•	•
Field Decoders/Output Devices											
FD101TURF	1 Address, 1 Valve per Station Decoder								•		
FD102TURF	1 Address, 2 Valve per Station Decoder								•		
FD202TURF	2 Address, 2 Valve per Station Decoder								•		
FD401TURF	4 Address, 1 Valve per Station Decoder								•		
FD601TURF	1 Address, 1 Valve per Station Decoder								•		
DPU-210	FD-Series Decoder Programming Device								•		
LXIVMSOL	I/M Commercial Valve Solenoid									•	•
LXIVMOUT	I/M Output Device									•	•
Pump Start Relays											
PSR110220	110/220V Single Relay Pump Start Relay	•	•	•	•	•	•	•			
PSR110IC	110V Double Relay Pump Start Relay	•	•	•	•	•	•	•	•		
PSR220IC	220V Double Relay Pump Start Relay	•	•	•	•	•	•	•	•		
PSR110-IVM	110V DC Latching Pump Start Relay									•	•
PSR220-IVM	220V DC Latching Pump Start Relay									•	•
Surge Protection Devices											
LSP-1TURF	FD-Series Decoder Line Surge Protector								•		
LXIVMSD	I/M Surge Device									•	•
Communication Devices											
LNK2 WIFI	Wi-Fi Module for Residential Controllers			•	•	•					
IQFSCMLXME	IQ Flow Smart Connection Module LXME						•	•			
IQCM LXD	IQ Connection Module LXD								•	•	•
IQ4G-USA	IQ 4G Cellular Communication Cartridge						•	•	•	•	•
IQNCEN	IQ Ethernet Communication Cartridge						•	•	•	•	•
IQNCCRS	IQ RS232 Communication Cartridge						•	•	•	•	•
Radios											
IQSSRADIO	900MHz Radio, TCP-IP, Metal Case						•	•	•	•	•
RB-SS-TN9B	900MHz Radio, TCP-IP, Plastic Case						•	•	•	•	•
IQRADPK	900MHz Radio Programming Kit						•	•	•	•	•
Metal Cabinets & Pedestals											
LXMM	Painted Metal Wall Mount Enclosure						•	•	•	•	•
LXMMSS	Stainless Steel Wall Mount Enclosure						•	•	•	•	•
LXMMPED	Painted Metal Pedestal (requires LXMM)						•	•	•	•	•
LXMMSSPED	Stainless Steel Pedestal (requires LXMMSS)						•	•	•	•	•

¹ Requires PT5002 Pulse Transmitter

Central Control Compatibility Matrix		IQ with		Maxicom with		Maxicom CCU with		SiteControl TWI with		SiteControl with	
		ESPLXME	ESPLXMEF	ESPLXD	ESPLXVM	ESPLXVMP	ESPSITE	ESPSAT2	ESPSATL	ESPSAT2	ESPSATL
Weather Sensors & Stations											
RSD-BKc	Wired Rain Sensor	•	•	•	•	•	•	•	•	•	•
WR2	Wireless Rain/Freeze Sensor	•	•	•	•	•	•	•	•	•	•
RAINGAUGE	Tipping Rain Gauge Sensor	•	•	•	•	•	•	•	•	•	•
ANEMOMETER	Wind Speed Sensor	• ¹	• ¹	• ¹	• ¹	• ²	• ²	• ²	• ²	• ²	• ²
WSPROZDC	Weather Station (requires modem)	•	•	•	•	•	•	•	•	•	•
Flow Meters & Sensors											
MJ100B	1" Brass Water Meter	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
ICWM	Internet Connected Water Meter	•	•	•	•	•	•	•	•	•	•
FS100P	1" PVC Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS150P	1-1/2" PVC Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS200P	2" PVC Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS300P	3" PVC Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS400P	4" PVC Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS100B	1" Brass Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS150B	1-1/2" Brass Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS200B	2" Brass Tee Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FSINSRT	Replacement Insert for Tee Sensors	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
FS350B	Insert Flow Sensor	•	•	•	•	• ²	• ²	• ²	• ²	• ²	•
Pulse Monitor/Transmitters											
PT322	Pulse Transmitter	•	•	•	•	•	•	•	•	•	•
PTS002	Flow Monitor/Pulse Transmitter	•	•	•	•	•	•	•	•	•	•
Sensor Decoders/Inputs											
SD210TURF	Sensor Decoder	•	•	•	•	•	•	•	•	•	•
LXIVMSEN	IVM Sensor Input	•	•	•	•	•	•	•	•	•	•
DECPULLR	Pulse Decoder	•	•	•	•	•	•	•	•	•	•
DECSNLR	Sensor Decoder	•	•	•	•	•	•	•	•	•	•
Modules											
ESPSM3	ME 3-Station Module	•	•	•	•	•	•	•	•	•	•
ESPSM6	ME 6-Station Module	•	•	•	•	•	•	•	•	•	•
ESPLXMSM8	LXME 8-Station Module	•	•	•	•	•	•	•	•	•	•
ESPLXMSM12	LXME 12-Station Module	•	•	•	•	•	•	•	•	•	•
LXBASEMOD	LXME Base Module	•	•	•	•	•	•	•	•	•	•
FSMLXME	LXME Flow Smart Module	•	•	•	•	•	•	•	•	•	•
ESPLXDSM75	LXD 75-Station Module	•	•	•	•	•	•	•	•	•	•
MOD50LXD	LXD 2-Wire Module	•	•	•	•	•	•	•	•	•	•
LXIVM2WMOD	IVM 2-Wire Module	•	•	•	•	•	•	•	•	•	•
Field Decoders/Output Devices											
FD101TURF	1 Address, 1 Valve per Station Decoder	•	•	•	•	•	•	•	•	•	•
FD102TURF	1 Address, 2 Valve per Station Decoder	•	•	•	•	•	•	•	•	•	•
FD202TURF	2 Address, 2 Valve per Station Decoder	•	•	•	•	•	•	•	•	•	•
FD401TURF	4 Address, 1 Valve per Station Decoder	•	•	•	•	•	•	•	•	•	•
FD601TURF	1 Address, 1 Valve per Station Decoder	•	•	•	•	•	•	•	•	•	•
DFU-210	FD-Series Decoder Programming Device	•	•	•	•	•	•	•	•	•	•
LXIVMSOL	IVM Commercial Valve Solenoid	•	•	•	•	•	•	•	•	•	•
LXIVMOUT	IVM Output Device	•	•	•	•	•	•	•	•	•	•
Pump Start Relays											
PSR10220	110/220V Single Relay Pump Start Relay	•	•	•	•	•	•	•	•	•	•
PSR110K	110V Double Relay Pump Start Relay	•	•	•	•	•	•	•	•	•	•
PSR220K	220V Double Relay Pump Start Relay	•	•	•	•	•	•	•	•	•	•
PSR10-IVM	110V DC Latching Pump Start Relay	•	•	•	•	•	•	•	•	•	•
PSR20-IVM	220V DC Latching Pump Start Relay	•	•	•	•	•	•	•	•	•	•
Surge Protection Devices											
FSURGEKIT	FS-Series Flow Sensor Surge Protector	•	•	•	•	•	•	•	•	•	•
LSP-1TURF	FD-Series Decoder Line Surge Protector	•	•	•	•	•	•	•	•	•	•
LXIVMSD	IVM Surge Device	•	•	•	•	•	•	•	•	•	•
Communication Devices											
LNK2-WIFI	Wi-Fi Module for Residential Controllers	•	•	•	•	•	•	•	•	•	•
PBC-LXD	ESPLXD Programming Backup Cartridge	•	•	•	•	•	•	•	•	•	•
IQFSCMLXME	IQ Flow Smart Connection Module LXME	•	•	•	•	•	•	•	•	•	•
IQCMLXD	IQ Connection Module LXD	•	•	•	•	•	•	•	•	•	•
IQ4G-USA	IQ4G Cellular Communication Cartridge	•	•	•	•	•	•	•	•	•	•
IQNCEN	IQ Ethernet Communication Cartridge	•	•	•	•	•	•	•	•	•	•
IQNCRS	IQ RS232 Communication Cartridge	•	•	•	•	•	•	•	•	•	•
RBD5-MPX	Maxi Link Communication Multiplexer	•	•	•	•	•	•	•	•	•	•
RBD5-PME	Maxi Primary Ethernet Modem	•	•	•	•	•	•	•	•	•	•
RBD5-SEMET	Maxi Link Secondary Ethernet Modem	•	•	•	•	•	•	•	•	•	•
ESPMIBTW	Maxi Two-Wire Satellite Interface Board	•	•	•	•	•	•	•	•	•	•
ESPMIBLINK	Maxi Link Satellite Interface Board	•	•	•	•	•	•	•	•	•	•
ESPMIBSITE	Maxi Site Satellite Interface Board	•	•	•	•	•	•	•	•	•	•
Radios											
IQSSRADIO	900MHz Radio, TCP-IP, Metal Case	•	•	•	•	•	•	•	•	•	•
RB-SS-TN98	900MHz Radio, TCP-IP, Plastic Case	•	•	•	•	•	•	•	•	•	•
RADTN9M1B	900MHz Radio, TCP-IP, Plastic Case	•	•	•	•	•	•	•	•	•	•
IQRADPK	900MHz Radio Programming Kit	•	•	•	•	•	•	•	•	•	•
Auxiliary Terminal Strips											
ESPSATOB24	Maxi 1-24 Station Terminal Strip	•	•	•	•	•	•	•	•	•	•
ESPSATOB40	Maxi 25-40 Station Terminal Strip	•	•	•	•	•	•	•	•	•	•
Metal Cabinets & Pedestals											
LXMM	Painted Metal Wall Mount Enclosure	•	•	•	•	•	•	•	•	•	•
LXMMSS	Stainless Steel Wall Mount Enclosure	•	•	•	•	•	•	•	•	•	•
LXMMPED	Painted Metal Pedestal (requires LXMM)	•	•	•	•	•	•	•	•	•	•
LXMMSSPED	Stainless Steel Pedestal (requires LXMMSS)	•	•	•	•	•	•	•	•	•	•

¹ Requires PTS002 Pulse Transmitter ² Requires PT322 or PTS002 Pulse Transmitter ³ Requires DEC-Series Decoder for Sensor Input