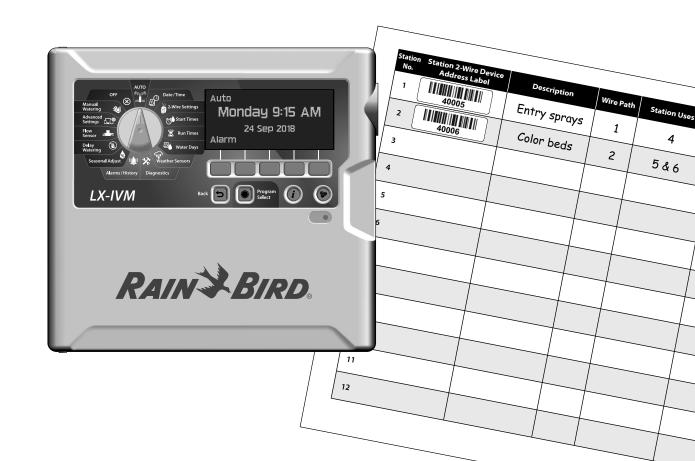


ESP LX-IVM Series Controllers

Programming Guide



Symbols & User Operation



NUMBERS define a series of steps for the user to follow in order to operate the controller.



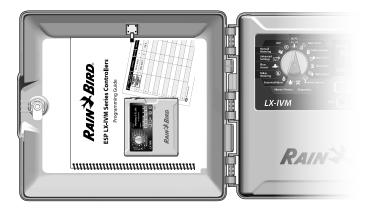
NOTE: Notifies the user of important operating instructions related to controller functionality, installation or maintenance.



REPEAT: Indicates that a repetition of previous steps or actions may be required for further operation, or to complete a process.

Storing the Programming Guide

Return the Programming Guide to a permanent, safe location when you're finished working with it. We recommend hanging it on the hook inside the controller cabinet door as shown below.

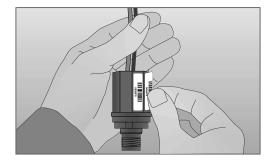


For technical assistance contact Rain Bird at 1-800-247-3782 www.rainbird.com

Apply 2-Wire Device Address Labels

Before you begin programming, apply your 2-Wire Device barcode labels to the appropriate fields on the Programming Guide.

1 Carefully peel off the station, master valve, flow or weather sensor device barcode label.



2 Apply the 2-Wire Device address labels in the appropriate fields on the Programming Guide.

Station No.	Station 2-Wire Device Address Label	Description
1	40005	Entry sprays
2	40006	Color heds
		APPLY
		LABELS

Repeat this process to apply additional barcode labels to the programming chart.

Fill Out Programming Guide

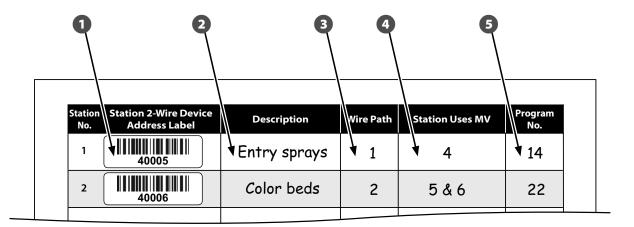
Before you begin programming, fill out the Programming Guide. Sample Programming information is shown on the following pages.

3 Enter information about your system hardware and settings in the appropriate fields on the Programming Guide.

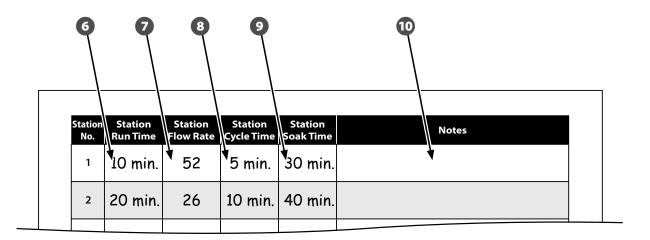
	Station No.		Station Flow Rate	Station Cycle Time				
	1	10 min.	52	5 min.				
	2	20 min.	26	10 min				
V								
ENTER INFO								

Sample Programming Guide Information

- 1 Apply Station 2-Wire Device Address labels in these fields.
- 2 Enter description of the Station.
- **3** Enter the Wire Path number for that station.
- 4 Enter which Master Valves (MV) the station uses.
- **5** Enter the Program number.



- Enter the Station Run Time
- Enter the Station Flow Rate.
- Enter the Station Cycle Time (if you're using Cycle+Soak™).
- Enter the Station Soak Time (if you're using Cycle+Soak).
- Enter notes if desired. 1

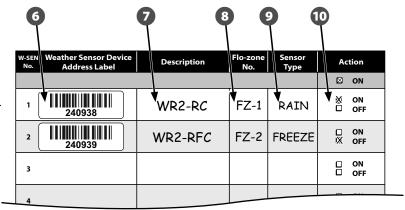


Sample Programming Guide Information

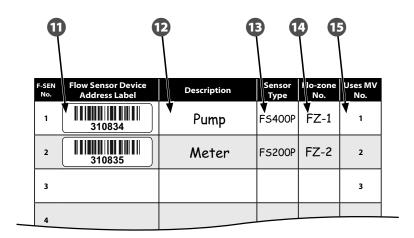
- 1 Apply Master Valve (MV) 2-Wire Device Address Labels in these fields.
- 2 Enter Description of the MV.
- 3 Enter the FloZone number for the MV.
- Check if the MV is normally open (N/O) or normally closed (N/C).
- 5 Check if the MV is allowed to open during the MV Manual Water Window.

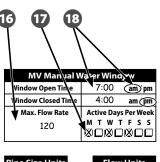
		9	4	•	
MV No.	Master Valve Device Address Label	Description	Flo-zone No.	NV Valve Type Normally Open / Closed	Open In Water Window
1	107326	Pump	FZ-1		V □ YES
2	107327	Meter	FZ-2	□ N/O ※ N/C	IX YES
3				□ N/O □ N/C	□ YES

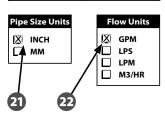
- Apply Weather Sensor
 2-Wire Device Address
 Labels in these fields.
- 7 Enter Description of the weather sensor.
- 8 Enter the FloZone number for the sensor.
- 9 Enter the Type of weather sensor.
- Oheck if the sensor is ON or OFF.

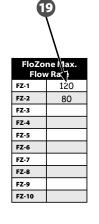


- Apply Flow Sensor 2-Wire Device Address Labels in these fields.
- Enter Description of the flow sensor.
- Enter the Type of flow sensor.
- Enter the FloZone number for the sensor.
- Specifies which Master Valve (MV) the weather sensor is connected to.
- Enter the Maximum
 Additional Flow Rate.
- for the water window to be active.
- Enter the Master Valve (MV) Manual Water Window Open and Close Time(s). Circle either "am" or "pm".
- Enter the Maximum Flow Rate for each FloZone in these fields.
- List of Rain Bird flow sensors.
- Check Pipe Size Units of measurement that you're using; inches or metric.
- Enter the Flow Units that you're using; GPM or other.











Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
133					
134					
135					
136					
137					
138					
139					
140					
141					
142					
143				-	
144					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
133					
134					
135					
136					
137					
138					
139					
140					
141					
142					
143					
144					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
145					
146					
147					
148					
149					
150					
151					
152					
153					
154					
155					
156					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
145					
146					
147					
148					
149					
150					
151					
152					
153					
154					
155					
156					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
157					
158					
159					
160					
161					
162					
163					
164					
165					
166					
167				-	
168					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
157					
158					
159					
160					
161					
162					
163					
164					
165					
166					
167					
168					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
169					
170					
171					
172					
173					
174					
175					
176					
177					
178					
179					
180					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
169					
170					
171					
172					
173					
174					
175					
176					
177					
178					
179					
180					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
181					
182					
183					
184					
185					
186					
187					
188					
189					
190					
191					
192					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
181					
182					
183					
184					
185					
186					
187					
188					
189					
190					
191					
192					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
193					
194					
195					
196					
197					
198					
199					
200					
201					
202					
203					
204					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
193					
194					
195					
196					
197					
198					
199					
200					
201					
202					
203					
204					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
205					
206					
207					
208					
209					
210					
211					
212					
213					
214					
215					
216					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
205					
206					
207					
208					
209					
210					
211					
212					
213					
214					
215					
216					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
217					
218					
219					
220					
221					
222					
223					
224					
225					
226					
227					
228					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
217					
218					
219					
220					
221					
222					
223					
224					
225					
226					
227					
228					

Station No.	Station 2-Wire Device Address Label	Description	Wire Path	Station Uses MV	Program No.
229					
230					
231					
232					
233					
234					
235					
236					
237					
238					
239					
240					

Station No.	Station Run Time	Station Flow Rate	Station Cycle Time	Station Soak Time	Notes
229					
230					
231					
232					
233					
234					
235					
236					
237					
238					
239					
240					

Master Valve Devices

MV No.	Master Valve Device Address Label	Description	FloZone No.	MV Valve Type Normally Open / Closed	Open In Water Window
1				□ N/O □ N/C	☐ YES
2				□ N/O □ N/C	□ YES
3				□ N/O □ N/C	□ YES
4				□ N/O □ N/C	□ YES
5				□ N/O □ N/C	□ YES
6				□ N/O □ N/C	□ YES
7				□ N/O □ N/C	□ YES
8				□ N/O □ N/C	□ YES
9	_			□ N/O □ N/C	□ YES
10				□ N/O □ N/C	□ YES

Flow Sensor Devices

F-SEN No.	Flow Sensor Device Address Label	Description	Sensor Type	FloZone No.	Uses MV No.
1					1
2					2
3					3
4					4
5					5
6					6
7					7
8					8
9					9
10					10

Weather Sensor Devices

W-SEN No.	Weather Sensor Device Address Label	Description	FloZone No.	Sensor Type	Actio	on
					Ø	ON
1						ON OFF
2						ON OFF
3						ON OFF
4						ON OFF
5						ON OFF
6						ON OFF
7						ON OFF

MV Manual Water Window / FloZone

MV Manual Water Window		
Window Open Time	am/pm	
Window Closed Time	am/pm	
Max. Flow Rate	Active Days Per Week M T W T F S S	

Pipe Size Units		
	INCH	
	MM	

Flow Units		
GPM		
LPS		
LPM		
M3/HR		

FloZone Max. Flow Rate		
FZ-1		
FZ-2		
FZ-3		
FZ-4		
FZ-5		
FZ-6		
FZ-7		
FZ-8		
FZ-9		
FZ-10		

Flow Sensors		
Туре	Description	
FS050P	½" PVC Tee	
FS075P	¾" PVC Tee	
FS100P	1" PVC Tee	
FS150P	1 ½" PVC Tee	
FS200P	2" PVC Tee	
FS300P	3" PVC Tee	
FS400P	4" PVC Tee	
FS100B	1" Brass Tee	
FS150B	1 ½" Brass Tee	
FS200B	2" Brass Tee	
FS350B	Brass Insert	
FS350SS	Stainless Steel Insert	
Custom	Custom User Defined	



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