EZFlora INSTEON and X10 Messages/Commands



In the tables that follow, the column heading **SE DAB** denotes whether the command is Standard-length (S) or Extended-length (E), and whether it is a Direct (D), ALL-Link (A), or Broadcast (B) command.

INS	TEOI	N Sta	ndar	d-Length Direc	t Messages/Commands		
Command Name	SE DAB	Cmd 1			Description		
Assign to ALL-Link Group	SD	0x01	0x00 - 0xFF Group Number		Used during INSTEON device linking session. Assigns link to an ALL-Link group.		
Delete from ALL- Link Group	SD	0x02	0x00 - 0xFF Group Number		Used during unlinking session. Deletes a link from the ALL-Link database.		
Product Key Re- quest	SD	0x03	0x00		EZFlora responds with an Extended-length <i>Product Key Response</i> message.		
Enter Link Mode	SD	0x09	0x00 -	0xFF Group Number	Same as holding down SET Button for 4 seconds.		
Enter Unlink Mode	SD	0x0A	0x00 -	0xFF Group Number	Same as holding down the SET button for 10 seconds.		
Ping	SD	0x0F	0x00		EZFlora returns an ACK message.		
ID Request	SD	0x10	0x00		EZFlora first returns an ACK message, then a SET Button Pressed Responder broadcast message.		
Set MSB for Peek and Poke	SD	0x28	0x00 - 0xFF MSB of address for Peek/Poke commands		Sets the address most significant for the location to be read or written into. Use 0x00 for locations inside the EZFlora, and 0XFF for the database.		
Poke (see note 2)	SD	0x29	0x00 - 0xFF value of timer in minutes		Puts the byte in Cmd 2 into the timer location pointed to by TIMERPTR which is then incremented.		
Peek (see note 1)	SD	0x2B	0x00 - 0x27 TIMERPTR value		Sets Cmd 2 value into TIMERPTR. Cmd 2 of the ACK message returns the byte pointed to TIMERPTR.		
Sprinkler Valve ON	SD	0x40	0x00 - 0x07 Valve Number		Turn ON the valve (1-8) in Cmd 2 (0-7). Cmd2 of the ACK message has the Valve Status Byte, or 0x00 if an invalid valve number or if Inhibit is ON.		
Sprinkler Valve OFF	SD	0x41	0x00 - 0x07 Valve Number		Turn OFF the valve (1-8) in Cmd 2 (0-7). ACK a 0xff if an invalid valve number.		
Sprinkler Program ON	SD	0x42	0x00 - 0x03 Program Number		Turn ON the program (1-4) in Cmd 2 (0-3). Cmd2 of the ACK message has the Valve Status Byte, or 0x00 if an invalid program number or if Inhibit is ON.		
Sprinkler Program OFF	SD	0x43	0x00 - 0x03 Program Number		Turn OFF the program (1-8) in Cmd 2 (0-3). ACK a 0xff in Cmd 2 if an invalid program number.		
Sprinkler Control	SD	0x44	0x00	Reset	Resets EZFlora to its factory default settings		
(All commands return the valve			0x02	Get Valve Status	Returns the valve status register.		
status register in Cmd2 of the ACK			0x03	Inhibit Command Acceptance	Stop accepting valve/program ON commands.		
message)			0x04	Resume Command Acceptance	Resume accepting commands.		
			0x05	Skip Forward	Turn off active valve and continue with next valve in program.		
			0x06	Skip Back	Turn off active valve and continue with previous valve in program.		
			0x07	Enable Pump	Configures V8 output for pump control.		
			0x08	Disable Pump	Configures V8 output for normal Valve 8 control.		
			0x09	Enable Valve Status Change Message	Enables broadcast message each time the valves change status.		
			0x0a	Disable Valve Status Change Message	Disables broadcast message each time the valves change status.		
				Arm rain sensor input	Enables rain sensor to inhibit.		
	0x0c Disarm rain sensor 0x0d Enable Meter Count Change Message		Disarm rain sensor	Disables rain sensor to inhibit.			
				Enables broadcast message each time the meter coun changes.			
			0x0e Disable Meter Count Change Message		Disables broadcast message each time the meter coun changes.		
			0x0f	Reset meter count	Sets the meter counter to zero.		
			0xfe	Start diagnostics	Pulses the valves sequentially one second at a time.		
		1	0xff	Stop diagnostics	Stops the diagnostics sequence.		

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INSTEON Standard-Length Direct Messages/Commands					
Command Name SE Cmd DAB 1		Cmd 2	Description		
Get Sprinkler Timers Request	SD	0x45	0x00 - 0x04 Timer Bank Number (0x00: is the Manual/ Default Valve timers)	EZFlora responds with an Extended-length Get Sprin- kler Program Response message.	
Get Configuration Register	SD	0xf0	0x00	Returns the configuration register in the Cmd2 byte of the ACK message.	
Set Configuration Register	SD	0xf1	0x00 - 0xFF Configuration bit map	Sets the configuration register.	
Get LS Meter Count	SD	0xf2	0x00	Returns the least significant byte of the meter counter in the Cmd2 of the ACK message.	
Get MS Meter Count	SD	0xf3	0x00	Returns the most significant byte of the meter counter in the Cmd2 of the ACK message.	
Set LS Meter Count	SD	0xf4	0x00	Sets the least significant byte of the meter counter to the value in Cmd2.	
Set MS Meter Count	SD	0xf5	0x00	Sets the most significant byte of the meter counter to the value in Cmd2.	

Set MS Meter Count	SD	0xf5	0x00		Sets the most significant byte of the meter counter to the value in Cmd2.			
INS	TEON	l Ext	ended-Len	gth Dire	ct M	lessages/C	Commands	
Command Name	SE DAE		d Cm	Cmd 2		Description		
Set Sprinkler Timers	ED	0x4	Number (0x0	0x00 - 0x04 Timer Bank Number (0x00: is the Manual/Default Valve timers)		D1 to D8 contain valve timer bank data to be set. D9- D14 are don't care. Cmd 2 contains the timer bank number: 0 for manual/default, 1-4 for P1 through P4.		
Get Sprinkler Timers Response	ED	0x4	Number (0x0	0x00 - 0x04 Program Number (0x00: is the Manual/Default Valve timers)		D1 to D8 contain current valve timer bank data. D9- D14 are don't care. Cmd 2 contains the timer bank number: 0 for manual/default, 1-4 for P1 through P4.		
INSTEON Standard-Length ALL-Link Messages/Commands								
ALL-Link Activate	SA	0x1	0x00 - 0x0F number	Group	Recal	Recall and activate ALL-Link state for number in Cmd 2		
INSTEON Standard-Length Broadcast Messages/Commands								
SET Button Pressed Slave	SB	0x0	I None		Linkin	ng Mode as a Slave device		
Status Changed	SB	0x2	7 EZFlora Valv Status	re/Counter	EZFlora send this message when there is change in the valve status (OFF-> ON -> OFF during a program) or the meter counter.			
			Notes:					
1) Valve Status Byte: EZFlora returns the status byte				Bits 0:2		The Active Valve	e # (0-7 is V1-V8)	
in response to a Valve or Program direct command request, or as a broadcast whenever any valve status			Bits 3:4		Active program	number (0-3)		
changes during progra	changes during programs. In the case of an invalid			Bit 5		If set, a Program Sequence is running		
Valve or Program condition, the returned value is 0x00 (for ON) and 0xff (for OFF commands.) The information in this byte is encoded as shown on the			Bit 6		If set, output V8 is configured for pump control			
			Bit 7		If set, a valve (V1-V8) is running (ON)			
right.				Bit 0		If set, EZFlora is in diagnostics mode		
2) Configuration Reg	guration register	Bit 1		If set, the rain sensor input is ON				
contains global configu	also reflects	Bit 3		If set, the EZFlora will not turn on valves				
the state of the rain se	various bits of	Bit 4 If set, the rain se		If set, the rain se	ensor input is enabled			
this register are showr		Bit 5		If set, the meter broadcast message is enabled				
		Bit 6		If set, the valve broadcast message is enabled				
		Bit 7		If set, output V8 is configured for pump control				
3) Timer Locations: 7		Timer Bank		Bank	EEPROM Address			
locations accessible for correspond to the time		Default/Manual Valve timers:		ve timers:	0x00 - 0x07			
Please note that only t		Program Sequence 1 (P1):			0x08 - 0x0f			
command is used and that the range is limited to addresses 0x00 to 0x2f. These locations are also				Program Sequence 2 (P2):			0x10 - 0x17	
accessible, one whole		Program Sequence 3 (P3):			0x18 - 0x1f			
the extended comman Get Sprinkler Timers.	r imers and	Program Sequence 4 (P4):			0x20 - 0x27			

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EZFlora INSTEON and X10 Messages/Commands



INSTE	ON St	anda	rd-Lengt	h Broad	cast	Messages/Commands		
SET Button Pressed Slave	SB	0x01	None		Linking Mode as a Slave device			
	SB	0x27	EZFlora Valve Status		EZFlora send this message when there is change in valve status (OFF-> ON -> OFF) when executing a program. This message is not sent follwing a direct valve control command.			
				Notes:				
The "To Address" Field broadcast message co			To Address USB		Status Register see previous page for bit definitions.			
the right.				To Address	MSB	Most significant byte of the meter counter		
1.5.0				To Address		Least significant byte of the meter counter		
				a X-10 Co	mma	nds		
Command Name	UNIT	CMD	Description	Description				
Turn Valve ON	1-8	ON	Turn Valve	Turn Valve in UNIT (1-8) ON				
Turn Valve OFF	1-8	OFF	Turn Valve	Turn Valve in UNIT (1-8) OFF				
Turn Program ON	9-12	ON	Start Prog	Start Program (1-4)				
Turn Program OFF	9-12	OFF	Stop Prog	Stop Program (1-4)				
Inhibit	13	ON	Stop acce	Stop accepting commands				
Resume	13	OFF	Resume command acceptance					
SKIP Forward	14	ON	Turn OFF Active Valve and Continue with Next Valve in Program (Skip Forward)					
SKIP Back	14	OFF	Turn OFF Back)	Turn OFF Active Valve and Continue with Previous Valve in Program (Skip Back)				
Enable Pump	16	ON	Make V8 o	Make V8 output ON when a valve is turned ON				
Disable Pump	16	OFF	Return V8 output to normal operation					

X10 Enabling/Disabling:

- Select the desired House code (A-P) on an X10 controller
- Press and hold the Set Button on the side of EZFlora. The LED will start blinking once the button is released
- If enabling X10 control, send 3 ON commands (any Unit code) in succession until the LED stops blinking
- If disabling, send 3 OFF commands (any Unit code) in succession until the LED stops blinking

Accessory Connector Pin-out:

- 1. Input 1 (not used)
- 2. +5V auxiliary 50Ma. Max.
- 3. Ground
- 4. Water Meter Pulse Input (has internal pullup)
- 5. Ground
- 6. Rain Sensor (Must be pulled up to inhibit)
- 7. Ground
- 8. No Connection

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g:
will start blinking once the button is
in succession until the LED stops blink-
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on until the LED stops blinking.
)
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