The AP3 Panel from ILC

- Network up 48 control points and 64 LightSync Address per network
- Can be programmed using a USB port on your laptop and free AP3 Software
- Can accept several add-on cards for advanced capabilities such as BACnet, N2, MODBUS, TCP/IP, and DMX control as well as 0-10v Dimming
- 48 available timer banks that can turn relays on and off for time of day, astronomical times, and open/close times
- This guide will walk you step-by-step through the most essential functions of the AP3 including setting timers, configuring a photocell, and configuring an LSG3 switch

For additional support, contact ILC Tech Support at 952-842-2588 or ilc.techsupport@ilc-usa.com
System Overview

• LightSync Devices such as LSG3 Switches and Photocell card must come off the right-side RJ45 port (out)

• Buttons on the left correspond to each row on the screen for selecting options (top button corresponds to the top row, second button to the second row, etc)

• Buttons on the right are for navigating the screen

• Toggle on far right turns CPU on and off

• All On/All Off Buttons on the bottom of the CPU will sweep all connected relays in the panel

• USB Type B Port for connecting to laptop
Blow Out Diagram

- OUT/LS Devices
- USB Type B
- All On/All Off Sweep
- Select Options
- Scroll Up and Down
- CPU On/Off Toggle
Configure Your AP3

Configure Relays

1. Edit
2. Configure System
3. Change Size to number of relays in panel (e.g. 04, 08, 16)
4. Exit

Set Time and Date

1. Edit
2. Set Times
3. Time and Date
4. Set time and date using up and down keys
5. Exit

Set Coordinates for Astro Clock (if needed)

1. Edit
2. Set Times
3. Astro Clock
4. Enter Latitude and Longitude
5. Verify time zone is correct
Grouping Relays

1. Edit
2. Relay Outputs
3. Relay Grouping
4. Select Group
5. Select Relays
6. Include: Yes or No
7. Use arrows to move rows
8. Once groups have all required relays, you can exit

Relay Output Status – Turn Relays On, Off, or Sweep

1. Edit
2. Relay Output Status
3. Single relays
4. Use arrows to scroll through relays
5. Select ON, OFF, or SWEEP to verify
**Setting Timers**

**Configure Timers**
1. Select Edit
2. Timers
3. Configure Timers
4. Time
5. Normal or Astro
6. Set time for timer or use Astro, SS (Sunset) or SR (Sunrise)
7. Use –X for “before” or +X for “after” e.g. SS-015 is 15 minutes before sunset
8. Repeat for both timers

**Timer/Relay Control**
1. Select Edit
2. Timer
3. Timer/Relay Control
4. Timer/Single Relays or Timer/Relay Groups
5. Using right buttons, scroll to timer
6. Using left button, select the Relay option
7. Using the right button, scroll the correct Relay
8. Using the left button, select Action
9. Using the right button, select “Turn ON” or “Turn OFF” for that relay
10. Repeat process until all relays for the required timer are configured
11. Repeat process for other timers, remember one Timer must be ON and the other must be OFF

**Test Your Timer**
1. Edit
2. Timers
3. Force Timers
4. Scroll to desired Timer
5. Force – will force the action prescribed
6. Verify lights are coming on and off with configured timers
Configure a Photocell

1. Edit
2. Switch Inputs
3. Light-Sync Inputs
4. Configure Devices
5. Select Address on Photocell Card (can use 01 as well)
6. Using the left button, select “Type”
7. Using the right button, scroll to find “Photocell”
8. Using the left button, select “Configure”
9. Using right and left buttons, set ON LEVEL to 100/255
10. Using the right and left buttons, set OFF LEVEL to 120/255

Confirm Device Status

1. Edit
2. Switch Inputs
3. Light-Sync Inputs
4. Light-Sync Status
5. Using right button scroll to Photocell
6. Using the left button select “Show Status”
7. Verify on bottom row that Photocell is “Connected”
8. Verify light levels, reboot if necessary
9. Exit

Set Relays to the Photocell

1. Edit
2. Switch inputs
3. Light-Sync Inputs
4. Input/Relay Control
5. Confirm Node and Type are correct (e.g. Node LSYNC O1, TYPE PHOTOCELL)
6. Edit Control
7. Input/Single Relays or Input/Relay Groups
8. Verify Input is correct e.g. LSYNC 01.1 (this is your Photocell)
9. Using the button the left, select Relay
10. Using the buttons on the right, scroll to desired Relay
11. Using the button on the left, select Action
12. Using the buttons on the right, scroll to desired action (most like ON AND OFF)
13. Repeat process for all relays required
14. Exit
Configure an LSG3 Switch

**Configure Switch**

1. Edit
2. Switch Inputs
3. Light-Sync Inputs
4. Configure Devices
5. Select Address on switch (for this example, we will use 04)
6. Using the button on the left, select Type
7. Using the button on the right scroll to 1 Button.
8. Select Configure
9. Confirm the Type is MOM PB (Momentary Push Button)
10. Confirm the Input is LSYNC 04.1 (for this example, it will be 05.1)

NOTE: If you are using a 2-5 Zone MZD, you must use a Preset for your “Off” button. The instructions are in the complete guide.

**Confirm Device Status**

1. Edit
2. Switch Inputs
3. Light-Sync Inputs
4. Light-Sync Status
5. Using right button scroll to Photocell
6. Using the left button select “Show Status”
7. Verify on bottom row that the LSG3 is “Connected”
8. Exit

**Set Relays to the Switch**

1. Edit
2. Switch inputs
3. Light-Sync Inputs
4. Input/Relay Control
5. Confirm Node and Type are correct (e.g., Node LSYNC 04, TYPE 1 BUTTON)
6. Edit Control
7. Input/Single Relays or Input/Relay Groups
8. Verify Input is correct eg LSYNC 01.1 (this is your LS Device)
9. Using the button on the left, select Relay
10. Using the buttons on the right, scroll to desired Relay
11. Using the button on the left, select Action
12. Using the buttons on the right, scroll to desired action Repeat process for all relays required
13. Exit
Configure an Input

**Configure Switch**

1. Edit
2. Switch Inputs
3. Local Inputs
4. Switch Input Options
5. Select Input
6. Select Type
7. Using the button on the right scroll to 1 Button.
8. Exit

**Set Relays to the Switch**

1. Edit
2. Switch inputs
3. Local Inputs
4. Input/Relay Control
5. Input/Single Relays
6. Select Input
7. Using the buttons on the left, select Relay
8. Using the buttons on the right, select the correct relay
9. Using the buttons on the left, select Action
10. Using the buttons on the right, select the correct Action
11. Repeat the last four steps until all relays have been correctly mapped
12. Exit
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