**WARNINGS AND CAUTIONS:**
- **TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- This product is intended only for use indoors and in dry locations.

**NOTES:**
- For use with Leviton® LevNet RF™ 902 MHz products.
- It may be more convenient to link the transmitters to controllers prior to final installation.

**DESCRIPTION**
Use the Relay Controller to control full circuit loads with the 20A Relay Receiver in an incredibly small form factor. The controller may be linked to self-powered wireless switches, wireless sensors, and/or central controllers to facilitate energy savings and automation with no new wires.

**FEATURES**
- **Power consumption** - save 70% over other wireless technologies.
- **Long range** - with a 50-150' range, LevNet RF provides the longest reliable range in the industry.
- **Easy-to-use** - programs in seconds; run zero switch-leg or traveler wires.
- **Increased memory** - each unit stores up to 25 transmitter IDs; error checking ensures the receiver only responds to appropriate transmitters on all packet transfers.
- **Save energy** - teach the receiver to respond to a LevNet RF sensor or teach all lights to respond to a single master switch.
- **Control the way you want it** - control the receiver with a variety of devices - wireless self-powered switches, sensors and more.
- **Simple wireless controls** - single-pole, 3-way, and 4-way switches; architectural lighting control; motor control; and Manual-ON/OFF and Auto-OFF controls.
- **Built-in repeater** - repeats wireless signals received for extended range, flexibility and reliability.

**COMPATIBLE DEVICES:**
- **EEPS:**
  - WSC12-9M9: A5-38-08 - non timed commands only
  - WSD20-Sdx: F6-02-01, F6-02-02, F6-03-01, F6-03-02, F6-04-01
  - WSSOS-S9x: A5-07-01, A5-07-02, A5-07-03
  - WSTLT-9Dx: D5-00-01, A5-30-01
  - WSWDR-H9W: A5-06-02, A5-06-03

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>902 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>50-150' feet (typical)</td>
</tr>
<tr>
<td>Power Input</td>
<td>100-277 VAC 50/60 Hz</td>
</tr>
<tr>
<td>Output</td>
<td>(1) 20A Latching Relay w/Arc Suppression</td>
</tr>
<tr>
<td>Maximum Load</td>
<td>General Duty, Tungsten (Incand.), Fluorescent Ballast: 5A, Motor Load: 1 HP</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>32° to +122°F (0° to +50°C)</td>
</tr>
<tr>
<td>Storage Temp</td>
<td>-4° to +176°F (-20° to +80°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>10-90% non-condensing</td>
</tr>
</tbody>
</table>

**EQUIPMENT NEEDED FOR INSTALLATION**
- Slotted/Phillips Screwdriver
- Wire Connectors
- Electrical Tape

**CHOOSE THE OPTIMAL MOUNTING LOCATION**
The long term reliability and wireless performance of the Relay is strongly influenced by the mounting location. Choose a mounting location carefully. For best radio performance:
- Straighten antenna out and away from metal.
- Create separation distance away from interfering electronics such as fluorescent tube ends, electronic transformers/powers supplies, motors, etc.
- Avoid mounting inside metal enclosures.
- Obstructions of metal, concrete, and dense building materials will reduce the range.
- Mount higher and away from obstructions to maximize the range.
- Installation above a hot fixture may result in overheating or melting. Confirm operating environment does not exceed temperature or humidity specs.
- Site survey tools are available to help fine tune wireless communications.

**INSTALLATION**

**1. WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring!

**2. PLAN** - Identify best mounting locations for receiver and transmitter. Perform range test to confirm operation prior to installation.

**3. CONNECT** - Make connections to the Controller following wiring diagram and local electrical codes. Restore power.

**4. TEST** - Press SELECT button to toggle output.

**5. LINK** Transmitters and Receivers following Linking Instructions below.

**LINKING INSTRUCTIONS**
The Controller must be powered on while linking. After linking, the Controller retains all settings in the event of power loss. Link up to 25 devices.

**SIMPLE LINKING**
Use Simple Link Mode for common applications:

1. **HOLD** the MENU button until the relay clicks (about 5 seconds), then release. The receiver will toggle a steady pattern indicating Simple Link Mode is active: — — — —

2. **TRANSMIT** the Link Signal by triple pressing the top button on switches or single pressing the Link (or teach) button on sensors. Relay pauses in ON position for 3 seconds when the link is created, then toggling resumes. Link additional transmitters (up to 25) as needed. (Relay pauses in OFF position for 3 seconds when the link is deleted.)

3. **WAIT** 30 seconds for Link Mode to exit automatically (toggling stops).

**SIMPLE LINK MODE OPERATING BEHAVIOR**
- **Manual Switch Control** (top button ON / bottom button OFF, hold to dim) : Link any switch.
- **Motion Sense Auto ON / Auto OFF:** Link only Occupancy sensors.
- **Manual Switch ON / Motion Sense Auto OFF:** Link both Occ Sensors & Switches.
- **Window/Door Sensor:** Closed ON / Open OFF.
- **Key Card Control:** Card in ON, Card out OFF.
- **Control Transmitter:** ON and OFF.
- **Master Dimming Control:** Link an Area Controller with 0-10V input as master.
- **Other Functionality:** See instructions on page 2.

**ADDITIONAL FUNCTIONS**

**TEST FUNCTION**
Press and release the SELECT button to toggle Relay ON and OFF.

**SENSOR LINK TEST MODE**
After linking, press the Link button on a sensor 6 times to activate the Link Test Mode. Subsequent presses from any linked sensor will cause the relay to toggle confirming the sensor is linked and testing the reliability of wireless communications. Link Test Mode will time out after 60 seconds of no activity.

**CLEAR ALL LINKS**
1. Activate Simple Link Mode by holding the MENU button until the Controller starts toggling.
2. Hold the SELECT button for 10 seconds to Clear All Links from the Controller.

**SELECTIVE LINK DELETION**
To remove one Link from Controller and leave others unaffected:

1. **HOLD** the MENU button to activate Link Mode. The toggling output confirms Link Mode is active.

2. **TRANSMIT** the Link Signal by triple pressing the top button on switches or single pressing the Link (or teach) button on sensors. Relay pauses in OFF position for 3 seconds when the link is deleted, then toggling resumes.

3. **WAIT** 30 seconds for Link Mode to exit automatically (toggling stops).

**REPEATER MODE**
Repeater function is DISABLED by default and may be enabled on specific controllers to extend the range by retransmitting all packets 1 or 2 times. Repeater mode may be changed using Advanced Setup instructions.

Transmit - - - Repeater 1x - - - Repeater 2x - - - Receive
Table 1 - Amber Menu

<table>
<thead>
<tr>
<th>Amber Blink count</th>
<th>Options</th>
<th>Hold MENU button 15 seconds until Status LED blinks Amber pattern. Press SELECT button to cycle through Amber blink counts. See Diagram.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Link Mode 1 (\text{Equal to Simple Link Mode})</td>
<td>Switches: Rocker Mode (top button ON / bottom button OFF); triple press to link. Occ Sensor: Manual ON / Auto OFF w/ switch linked, Auto ON/ Auto OFF with no switch, 15 min default timeout. Window/Door Sensor: Closed ON / Open OFF. Control Transmitter: synchronize state. Central Command: synchronize state.</td>
</tr>
<tr>
<td>3</td>
<td>Link Mode 3</td>
<td>Switches: Toggle button, triple press to link. Occ Sensor: Auto ON / Auto OFF, 5 min timeout.</td>
</tr>
<tr>
<td>4</td>
<td>Link Mode 4</td>
<td>Switches: Scene button (recall specific dim level, adjust level with SELECT button), triple press to link/save.</td>
</tr>
<tr>
<td>5</td>
<td>Clear Mode</td>
<td>Selective Clear: Triple press switch button or transmit Link Signal from sensor to selectively delete from all modes. Clear Links: Hold SELECT button for 15 seconds to clear all links. Clear All: Hold SELECT button for 15 seconds to restore factory defaults, solid red for 10 seconds confirms clear all success.</td>
</tr>
<tr>
<td>6</td>
<td>Config Options</td>
<td>See Table 2 &quot;Config Options Green Menu.&quot;</td>
</tr>
</tbody>
</table>

Table 2 - Config Options Green Menu (6 Amber Blinks)

<table>
<thead>
<tr>
<th>Amber Blink count</th>
<th>Config Options</th>
<th>Activate 6 blink Amber Menu, Press MENU to enter, Press SELECT button to cycle through Green blink counts. See Diagram.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Auto-OFF</td>
<td>1: Disabled (default), 2: 5 min, 3: 10 min, 4: 15 min (Occ default), 5: 20min, 6: 25min, 7: 30min, 8: 60min, 10: Other</td>
</tr>
<tr>
<td>2</td>
<td>Repeater</td>
<td>1: 1x repeating, 2: 2x repeating, 3: OFF (default).</td>
</tr>
<tr>
<td>3</td>
<td>Power up state</td>
<td>1: Auto (default), 2: State Memory, 3: Normally Closed, 4: Normally Open.</td>
</tr>
<tr>
<td>4</td>
<td>Status reporting</td>
<td>1: A5-38-08 (default), 2: A5-11-01, 3: disabled (when enabled transmits on change and every 2 +/minutes by default).</td>
</tr>
<tr>
<td>5</td>
<td>Invert relay</td>
<td>1: Relay asserted Closed (default); 2: Relay asserted Open: inverted logic.</td>
</tr>
<tr>
<td>6</td>
<td>Load type</td>
<td>1: AC loads only (default); arc suppression enabled. 2: DC loads: arc suppression disabled.</td>
</tr>
<tr>
<td>7</td>
<td>Daylighting Threshold</td>
<td>Set the Daylighting Threshold between 10% and 90%. Hold SELECT button to adjust. LED blinks indicate Daylight Threshold setting: RED 1-9x.</td>
</tr>
</tbody>
</table>

CERTIFICATIONS: ETL: UL 60730 (U.S.), C52422.2A14205 (CANADA), UL 2043 (PLENUM) CE: IEC 60730, IEC61000-4-5 (SURGE) FCC: SZV-STM300U (UNITED STATES) CE: IEC61000-4-5 IC: 5713A-STM300U (CANADA)

FCC COMPLIANCE STATEMENT: Contains: SZV-STM300U The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i) this device may not cause harmful interference and (ii) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Resitnt, or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

IC COMPLIANCE STATEMENT: Contains: 5713A-STM300U This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. IMPORTANT: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This Class B digital apparatus complies with Canadian ICES-003.

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