Integrated Room Control (IRC)

Engineered to deliver a simple and cost-effective IECC, ASHRAE 90.1 and Title 24 energy code compliant solution, the Leviton Integrated Room Control (IRC) features high performance lighting control capabilities in a compact device. The IRC solution combines daylight harvesting, 0-10V dimming, partial-ON, partial-OFF, occupancy sensing and demand response capabilities into a single, easy to install package.

IRC features Ladderless Commissioning™ for install-and-forget convenience and the AutoCal™ feature which automatically sets the maximum light output levels and calculates light loss factor for accurate lumen maintenance. IRC can be ordered as a custom kit or a factory pre-configured kit which includes a sensor, photocell, and 4-button switch that provides ON, bright, dim, and OFF functionality.

**The Integrated Room Control (IRC) Advantage**

- Automatic closed or open loop daylight harvesting control for 2- or 3-zones
- Daylight switching and full range 0-10V dimming
- Demand response
- Plug Load Control with OPP20 Power Pack
- Partial-ON and Partial-OFF control
- Manual-ON/Auto-OFF
- Task tuning
- Stairwell application control
- Input for external time clock integration, load shedding and emergency override
- Simplified integration with emergency systems
- Ladderless Commissioning™
- Autocal™ automatic photocell calibration
- Convenient low voltage inputs for occupancy sensor, photocell and switch
- Simplified stand-alone daylight harvesting and 0-10V dimming in one compact device
- IECC, ASHRAE 90.1 and Title 24 compliant

**IRC Code Compliant Capabilities**

**IECC, ASHRAE 90.1 and Title 24**

- **Dimming**: delivers multiple light levels other than full-ON and full-OFF
- **Daylight harvesting**: automatically adjusts electric light levels based on the amount of daylight in the space
- **Demand response**: reduces lighting loads during peak levels of electricity use
- **Plug load control**: automatically switches receptacle outlets OFF based on occupancy sensor signal
- **Partial-ON control**: turns lights ON partially via manual switch or occupancy sensor when a space is occupied
- **Partial-OFF control**: automatically reduces lighting in a space by at least 50% when a space is unoccupied

**SIMPLE INSTALLATION STEPS**

1. Physically install unit and any peripherals
2. Terminate power & control wiring
3. Enable AutoCal & Auto-Burn-In
4. Power up system
5. Installation & configuration complete!

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation
20497 SW Teton Avenue, Tualatin, OR 97062 tech line 800-959-6004 fax 503-404-5594 © 2017 Leviton Manufacturing Co., Inc. All rights reserved. Subject to change without notice.
ROOM CONTROL SOLUTIONS

(2) Zones with (2) 0-10V Outputs and (2) Relays

What You Will Need

<table>
<thead>
<tr>
<th>Description</th>
<th>IRC, 2 Zone, 2 Relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>MZD20-102</td>
<td>Multi-Tech Ceiling Mount Occupancy Sensor (OSC20-RMW)</td>
</tr>
<tr>
<td>Photocell ODC0P-00W</td>
<td>Low Voltage 4-Button Switch, White (RL VSW-4LW)</td>
</tr>
<tr>
<td>OPP20 Super Duty Power Pack</td>
<td>OPP20 RD4</td>
</tr>
</tbody>
</table>

BUILD A SYSTEM - simply choose an IRC, Sensor, 4-Button Switch, and Photocell

1. Select an IRC
2. Select a sensor
3. Select a switch(es)
4. Select a photocell

 Determined number of zones to be controlled
 Add sensor* - see Data sheets for additional specifications
 Ceiling Mount Sensors
 OSC05/10-20-RMW - Multi-tech
 OSC05/10-20-U - U/S
 OSC04/15-I - PIR
 Wall/Corner Mount Sensors
 OSM12-M - Multi-tech, 1200SF
 OSMWV-I - PIR, 2500SF
 OSMWBH-I - PIR, 55 ft x 7 ft
 OSMWR-I - PIR, 100 ft
 Determine number of switches, color, and if engraving is required
 White
 Add RL VSW-1LW (1 button), 2LW (2-button) or 4LW (4-button)
 Color Change Kits
 Add RDGSW-4Ex**
 Engraved Color Change Kits
 Add RDGSW-4Fx**

 Are there windows in the space?
 Yes
 Add ODC0P-00W
 No
 No photocell required

(3) Zones with (3) 0-10V Outputs and (1) Relay

What You Will Need

<table>
<thead>
<tr>
<th>Description</th>
<th>IRC, 3 Zone, 1 Relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>MZD30-101</td>
<td>Multi-Tech Ceiling Mount Occupancy Sensor (OSC20-RMW)</td>
</tr>
<tr>
<td>Photocell ODC0P-00W</td>
<td>Low Voltage 4-Button Switch, White (RL VSW-4LW)</td>
</tr>
<tr>
<td>OPP20 Super Duty Power Pack</td>
<td>OPP20 RD4</td>
</tr>
</tbody>
</table>

ROOM-IN-A-BOX KITS - order a complete system with one part number
Factory pre-configured kits include IRC, Multi-Tech Ceiling Mount Occupancy Sensor (OSC10-M0W), 4-Button Switch - White (RLVSW-4LW), and Photocell (ODC0P-00W)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCD20-102</td>
<td>Control for (2) zones, with (2) 0-10V outputs and (2) 120-277V relays</td>
</tr>
<tr>
<td>RCD30-101</td>
<td>Control for (3) zones, with (3) 0-10V outputs and (1) 120-277V relay</td>
</tr>
<tr>
<td>RCD20-C02</td>
<td>Control for (2) zones, with (2) 0-10V outputs and (2) 347V relay</td>
</tr>
<tr>
<td>RCD30-C01</td>
<td>Control for (3) zones, with (3) 0-10V outputs and (1) 347V relay</td>
</tr>
</tbody>
</table>

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation
20497 SW Teton Avenue, Tualatin, OR 97062  tel 800-736-6682  fax 503-404-5594
tech line (6:00AM-4:00PM PT Monday-Friday) 800-954-6004

Leviton Manufacturing Co., Inc. Global Headquarters
201 North Service Road, Melville, NY 11747-3138 tel 800-323-8920  fax 800-832-9538
tech line (8:30AM-7:00PM ET Monday-Friday) 800-824-3005

Visit our website at: www.leviton.com/emca
©2017 Leviton Manufacturing Co. Inc. All rights reserved. Subject to change without notice.

* See data sheets for additional specifications.
** Replace x to indicate color: White (W), Ivory (I), Light Almond (T), Gray (G), Black (E) and Red (R).