**INSTALLATION INSTRUCTIONS**

**WARNINGS**
- **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.

**CAUTIONS**
- Use this device with copper or copper clad wire only.
- For indoor applications only.
- Save these instructions.

**Introduction**
The GreenMax DRC Low Voltage Analog Interface (AI) is designed to accept input from low voltage sources like occupancy sensors, switches, photocells, and other related systems, and to interface to other external systems via low voltage input.

**Before Installation**
Consider the items noted below:
- When surface mounting using the mounting ears, ensure environment is free from debris and wiring is protected.
- For jurisdictions where all Class 2 wiring must be in conduit or if the device must be in a metal enclosure, surface mounting is not appropriate.
- For compliance with Chicago plenum requirements, installation in metal box is required.

**DRID0-C02 Installation Options**
Mount with one of the following methods:

- **DIN Rail Mounting**
- **Surface Mounting**

**DRID0-CB2 Installation**
Install into a 4-11/16 in. electrical junction box.

**Before Installation**
Consider the items noted below:
- When surface mounting using the mounting ears, ensure environment is free from debris and wiring is protected.
- For jurisdictions where all Class 2 wiring must be in conduit or if the device must be in a metal enclosure, surface mounting is not appropriate.
- For compliance with Chicago plenum requirements, installation in metal box is required.

**Interface**

1. DC COM = COM
2. AI1 & AI2 = Analog Input
   - 0.5-24VDC at 10 bit resolution for analog inputs.
   - 0.5-10VDC for use with a photocell.
   - +24V/Open for external contact closure as you would use with a switch or a photocell contact closure. May be used with a momentary or maintained device.
3. +V OUT = Output voltage to devices. Actual voltage will be same as input passthrough from LumaCAN. Output is short circuit protected.
4. STATUS LED = Shows network status. The LEDs have the following functions:
   - AI1 = Solid Yellow when Analog Input #1 is Active (> 0.5V)
   - AI2 = Solid Yellow when Analog Input #2 is Active (> 0.5V)
   - AI1/AI2 = Blink rapidly when in bootloader mode.
   - RX/TX = Solid Green when network connected. Blinks Green on network traffic.
5. LumaCAN = LumaCAN Network connections
6. TERM = Provides Network termination. Jumper to be installed if last device on network. Remove jumper if not an end device.
7. ADDR = Used to set LumaCAN network address.

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- If you are unsure about any part of these instructions, consult an electrician.

**CAUTIONS**
- Use this device with copper or copper clad wire only.
- For indoor applications only.
- Save these instructions.
Wiring and Network Details

1. Wire the device and make all network connections. Some examples are shown, but your specific situation may warrant slightly different wiring. Refer to your submittal drawings or consult factory if you are unclear about connections means and methods.

Wiring to a Single Photocell:

- Common
- D-100DC
- Photocell

Wiring to a Demand Response Interface:

- Common
- Load Shed Trigger
- Demand Response Interface
- Internet

Wiring to (2) Occupancy Zones:

- Common
- Zone 1 Occupancy Sensor
- Zone 2 Occupancy Sensor

### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Nos.</td>
<td>DRID0-C02, DRID0-CB2</td>
</tr>
<tr>
<td>Input Voltage/Frequency</td>
<td>12-24VDC</td>
</tr>
<tr>
<td>Input Current</td>
<td>45-22mA + Connected DC Load</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>Same as input voltage</td>
</tr>
<tr>
<td>Output Current</td>
<td>1.5A Max; short circuit current protected/current limited to 100mA as shipped from factory. Software Configurable</td>
</tr>
<tr>
<td>IP Rating</td>
<td>20</td>
</tr>
<tr>
<td>Terminal Torque Rating, Low Voltage</td>
<td>1.8 lbf-in</td>
</tr>
<tr>
<td>Network Connections</td>
<td>(2) RJ-45 Cat 6 or better for connection to LumaCAN network, Termination provided via local termination jumper.</td>
</tr>
<tr>
<td>Network Topology</td>
<td>Daisy Chain, 1600 ft; max between repeaters. Home-Run topology and network length up to 10,000 ft. can be achieved when using LumaCAN network repeaters (Leviton #NPRPT). Maximum 250 nodes on a LumaCAN network. Maximum 1600 ft. max between repeaters. Maximum 250 nodes on a LumaCAN network.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0-45°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-10-70°C</td>
</tr>
</tbody>
</table>

NOTE: Devices are powered from the LumaCAN network and power is passed through the A+ 24Vout/CAN terminals. Ensure you have adequate power to power all devices before connecting to the network.

NOTE: LumaCAN network must be powered by Class 2 or LPSPower supply and total network power may not exceed 1500mA per power segment.

2. Set unique LumaCAN network address (see DIP switch designations below).

3. Program the analogue interface using a GreenMax DRC room controller through the GreenMax DRC System app.

### FCC and Industry Canada Compliance Statement:

**FCC & IC Statement:** This device complies with Part 15 of the FCC Rules and ICES-001 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Leviton could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian CAN ICES-3(A)/NMB-3(A).

**FCC Supplier's Declaration of Conformity:**

Model DRID0-C02 and DRID0-CB2 are sold by Leviton Manufacturing Inc. 201 N Service Rd, Melville, NY 11747.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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**LIMITED 5 YEAR WARRANTY AND EXCLUSIONS:**

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-262-5945. This warranty excludes and there is disclaimed liability for labor for removal of the product or installation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, abused, altered or adhered to any manner, or is not used under normal operating conditions or not by a consumer.

Leviton could void the user’s authority to operate the equipment.

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For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com

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