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.

Product Description
This GreenMax DRC Sensor is a direct network connected device which can detect both Occupancy and Light level within its specified range. It reports data using LumaCAN™ Sensor messages over the network, for receipt by any Sapphire or GreenMAX DRC Room Controller.

Before Installation
• Requires installation into 2” (52mm) mounting hole.
• Requires 4” (102mm) vertical clearance
• Surface diameter is 2.5” (64mm)
• When installation requires conduit for class 2 LumaCAN wiring, drill 2” opening into side of junction box, and, install j-box above ceiling directly above sensor.
• LumaCAN Wiring requires Category rated cable for Power & Data. Use Category 6 or better cable with quality RJ-45 connections. Wire per TIA-568B standards
• To ensure power distribution between nodes, the sequence of network nodes described in the Construction Documents may be critical.
• All LumaCAN wire segments must be tested and validated prior to power-up of the system.

Reference
A. LumaCAN Connections
B. Power indicator light
   - Normal Operation: SOLID [ON]
C. LumaCAN Communication indicator light
   - Normal Operation: blinks when tx/rx LumaCAN communication is occurring
D. Addressing DIP Switches
E. Termination Switch: [ON] to Terminate
F. P1 Universe Programming DIP switch
G. P2 Channel Programming DIP Switch
H. Occupancy Sensor, Light Level Sensor & Occupancy indicator light
   - Occupancy: blinks red when detected

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

1. Drill a 2” (52mm) mounting hole
2. Push network wires through hole and connect to sensor.
   If end of line, the sensor must be terminated by setting the Termination switch to [ON].
3. Using the DIP switches and procedures below, program the universe and input numbers into the sensor

Each sensor requires a unique input number assignment. This input number will be used by the network controller(s) to track activity of the sensor. The occupancy sensor will have the assigned input number and the photocell will have the next sequential number (if occ sensor is 1, photocell is 2). Setting the input number requires setting the universe number and the input number within that universe. Valid universe numbers are 0-127, resulting in a input number range of 1-32,768. The chart shows each universe number, the channel range for that universe, the DIP switch setting for the universe, and the actual input number.

1. Set the Universe Number
   a. Set DIP switch P1 to [ON]
   b. The PWDR indicator should blink rapidly indicating that the Smart Pack is awaiting entry of the universe number.
   c. Set DIP switches 1-8 to the required address of the universe number.
      Refer to the chart.
   d. For input numbers between 1-256 it will be set to all 0's.
   e. Set DIP switch P1 to [OFF]
   f. The PWDR indicator will turn off indicating that it is saving data then resume normal operation.

2. Set the Input Number
   a. Set DIP switch P2 to [ON]
   b. The COM indicator should blink rapidly indicating that it is awaiting an input number.
   c. Set DIP switches 1-8 to the required address of the input number.
      Refer to the chart.
   d. Set DIP switch P2 to [OFF]
   e. The COM indicator will turn off indicating that it’s saving data then resume normal operation.

3. Install sensor into mounting hole
   a. Retract spring arms and insert into mounting hole.

4. Set DIP switches 1-8 to the desired LumaCAN address

   A unique LumaCAN address ID must be set for each LumaCAN device. The first 8 switches of the DIP switch are used for setting the ID. During operation, P1 and P2 must be in the off position. Valid node addresses are 1-250. If the node ID’s are defined in your Contract Document, set to that address.

   If not, ensure that the ID is unique for each device in the system. It’s helpful, although not required, that the location of each node ID is documented for use by Leviton Field service during system commissioning.

5. Confirm sensor is operating on network.

6. Retract spring arms and insert into mounting hole

   a. [Diagram of sensor installation]

   b. Release spring arms, sensor will secure itself

FCC COMPLIANCE STATEMENT:

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 (ii.) This device must accept any interference, 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 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:
   • Reorient 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.

RF EXPOSURE AND CO-LOCATION:

To comply with FCC OET Bulletin 65 and ISED RF exposure limits for general population / uncontrolled exposure this device should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

INDUSTRY CANADA COMPLIANCE STATEMENT:

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 CAN ICES-3(B)/NMB-3(B).

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

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 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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