IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be followed including the following:

- · Do not use outdoors.
- · Do not mount near gas or electric heaters.
- · Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- · The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition
- · Do not use this equipment for other than its intended use.

WARNINGS AND CAUTIONS

Emergency

Neutra

Ho

LumaCan

White

To Load

Pack

Sense is power over LumaCAN: In this scenario, both the supply input wires AND the

Load-In are connected to the emergency source. The SmartPack monitors power on the LumaCAN line and upon loss of power, the relay closes and 0-10V lines go to full output.

emergency event and can report it's status to the network, and, 2. Only EM power is run to

the DRC Smart Pack so separation of normal and emergency at this location is not required.

Device does NOT supply voltage or power to +24VDC LumaCAN bus

On loss of +24VDC LumaCAN bus power device will close RELAY and force

Device supplies 24VDC power to LumaCAN bus to power other devices

The Smart Pack will not provide power to the LumaCAN network. All power must be

• The Systems Designer and Installer must verify that any and all power supplies which

Upon restoration of Normal Power, the Smart Pack will automatically resume normal

To Normal

Norma

Lighting Smart

Lighting Load

could supply power to either LumaCAN segment are fed from normal power and are not

connected to a UPS or other power source which could be powered in an EM condition.

To Emergency

Lighting Load

Lighting Smart

LumaCan

On loss of LINE power the device will close RELAY and force 0-10V to high

There are two advantages of this mode: 1. LumaCAN remains operational during the

· The Emergency Mode switch must be in the CAN position

Black

Neutral White

LumaCan

Notes Specific to this mode:

The CAN Switch

CAN MODE

UP position)

LINE MODE

DOWN position)

from other devices.

operation.

Panel

LumaCan

0-10V to MAX brightness

mpedance (Max brightness)

SmartPack will go to full output within 1 second.

BL/WT

BLK

WT

(switch in

· CAN MODE

(switch in

Panel

- TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING, SERVICING, OR REMOVING FIXTURE OR CHANGING LAMPS!
- WARNING: This equipment permits more than one power supply output source. To avoid electric shock disconnect both normal and emergency sources connected to this unit before servicing any equipment connected to this unit.
- "EMERGENCY CIRCUITS" enclosed label should be placed in a highly visible location if any DRC is part of the emergency system so as to be readily identifiable as a component of the emergency system.

WARNINGS AND CAUTIONS

- · To be installed and/or used in accordance with electrical codes and regulations
- · If you are not sure about any part of these instructions, consult an electrician.
- To avoid electrical overload, total connected lamp load shall not exceed output rating.
- Test all LumaCAN cables for proper pin-out configuration prior to interconnecting devices and systems.
- To be used for indoor applications only. · Use this device with copper or copper clad wire only.

PK-A3148-10-00-2A

ENGLISH

DESCRIPTION

The Distributed Room Controller Smart Pack contains a power supply, 0-10V Dimming Control, LumaCAN RJ45 input/output and a load switching latching relay. The power supply provides Class 2 low-voltage power over LumaCAN for powering other devices (Distributed Switch, Occupancy Sensor, Photocell, Sapphire Touch Controller) as well as monitoring the status of power. The DRC Smart Pack requires connection to a LumaCAN network for control, no local control is provided. The power pack includes zero cross switching circuitry to minimize inrush current associated with incandescent lights, LED and electronic ballasts, increasing its life expectancy.

Application Notes:

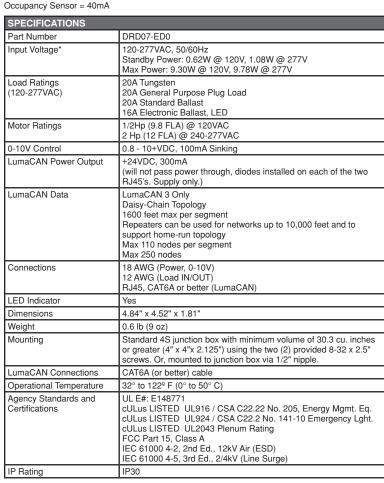
- 1. When the total lighting fixtures load exceeds a single power pack's rating (e.g. 16A Electronic Ballasts), the load will need to be separated using multiple DRC Smart Packs.
- 2. When more devices are required than one power pack can supply on the +24V LumaCAN bus, multiple power packs can be used to supply power to support the additional devices (up to a maximum of 600mA between two power packs via LumaCAN RJ45 24V output). Total number of devices attached to a single DRC Smart Pack must be <= 300mA

Device current requirement (typical):

Sapphire Touch Controller = 600mA (2 DRC's Required) Digital Switch = 25mA

Photocell = 15mA

Occupancy Sensor = 40mA



* Input voltage tolerance 10%, Frequency tolerance 5%.

EMERGENCY

The DRC Smart Pack can be used as a UL 924 emergency bypass device ensuring that the relay is closed during a power failure condition. Availability of input power to power the load is the responsibility of others. Two options for sensing normal power are available and your Construction Documents will dictate which you are to use. The options and features of normal sense are as follows:

- Sense is Normal Power through the Black (Line) wire: Upon loss of supplying power to the
- Sense is power over LumaCAN: Upon loss of +24V power on LumaCAN wire, relay will close. The "Emergency Circuits" label shall be placed on the Smart Pack so the user is aware this device is used for emergency lighting.

Sense is Normal Power through the supply Input (Black/White): In this scenario, the supply input wires are connected to normal power, and, the Load In for the relay is connected to Emergency Power. Upon loss of normal power, the relay closes, and the 0-10V lines go to high impedance allowing the load to go to full output powered from the Emergency Source. The Emergency Mode switch must be in the LINE position. Upon restoration of normal power, Smart Pack will automatically resume normal operation.

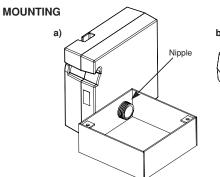
INSTALLATION AND QUICK START GUIDE

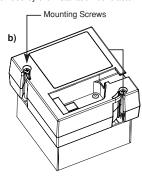
INSTALLATION

Distributed Room Controller (DRC) Smart Pack

Cat. No. DRD07

- 1. WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- NOTE: This is an ESD Sensitive Device. Use safe ESD handling procedures when installing.
- 2. Mount the DRC Smart pack per desired application (see Mounting figure):
- a. Mount to junction box using nipple and mounting nut provided.
- b. Mount to face of 4S junction box with minimum volume 30.3 cu. inches or greater (4" x 4"x 2.125") using the two (2) provided 8-32 x 2.5" screws.
- Ensure that conduit/cable entry clamp is located in a corner of junction box opposite the DRC nipple as conflicts may occur.
- Dress wires to provide enough clearance when device is installed.
- 3. CLASS 2 INSTALLATION NOTE: #3 0-10V Control Wiring Connect the Violet wire to the + 0-10V line and the Gray wire to the 0-10V common using Class 1 or Class 2 wiring methods as indicated in these instructions, ballast/fixture/driver instructions or ballast/fixture/driver label markings which are in accordance with NEC Code NFPA 70, paragraph 725,136 (d)
- a. For Installation as a Class 1 Device: When this product is installed as a Class 1 device and configured for use with other Class 1 devices it shall be wired using typical NEC Class 1 requirements
- b. For Installation as a Class 2 Device: All devices in the circuit must be Class 2 rated and wired per instructions below. The 0-10V control wires must be mechanically separated from Class 1, line, neutral and ground power lines. This can be accomplished by install a mechanical barrier, in the form of silicone tubing (enclosed) or other non-conducting sleeve, over the length of building wires, or CL3, CL3R or CL3P rated control cables, entering the junction box and terminate the tubing at the wire nut that connects the building wire to the Violet & Gray 0-10V control wires from device. The silicone tubing shall be NRTL (UL/CSA/ETL) recognized or equivalent to provide mechanical separation equal to .25" in air. The Connectors joining 0-10V control wires shall be approved NRTL LISTED connectors. Wire connectors shall be provided by the installation contractor.





- Line Voltage Wiring: Remove 5/8" (1.6 cm) of insulation from each circuit conductor. Make sure that ends of conductors are straight. Connect lead wires from DRC Smart Pack to LINE circuit per appropriate WIRING DIAGRAM as follows: Twist strands of each lead tightly and, with circuit conductors push firmly into appropriate wire connector. Screw connectors on clockwise making sure that no bare conductor shows below the wire connectors. Secure each connector with electrical tape.

 5. LumaCAN: Two LumaCAN ports are provided to maintain the required Daisy-Chain topology of the
- LumaCAN network. Plug in CAT6A (or better) cable with standard RJ45 connector. If two connections are required, remove the terminator from one of the RJ45's and make both connections. If only one connection is required, leave the supplied terminator connected.
- Wire per the TIA-568B standard.
- The sequence of network nodes, as described in the Construction Documents, may be critical to ensure power distribution between nodes.
- All LumaCAN wire segments must be tested and validated prior to power-up of the system.

 The last device in each LumaCAN run must be terminated using an RJ45 terminator plug. Each Smart Pack is supplied with one terminator plug pre-installed in the smart pack. Additional terminators are available upon request. LumaCAN connections must be wired as Class 2 and as such should be installed according to the requirements of your authorities having jurisdiction. If it is required that the Class 2 wiring be in conduit, use a 4S extension ring and blank plate on the LumaCAN side of the Smart Pack, and, terminate conduit to the extension ring.

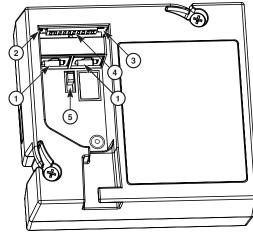
Restore power at circuit breaker or fuse. INSTALLATION IS COMPLETE. When power is applied, Smart Pack will power up in the ON state and then default to the last powered down state. The default from the factory is ON after power up.

Wire Designations

Control Power In: 120-277VAC	Black	18 AWG
Control Neutral	White	18 AWG
Load (Load IN)	Blue/White	12 AWG
Load (Load OUT)	Blue	12 AWG
0-10VDC Control	Violet	18 AWG
0-10VDC Common	Gray	18 AWG

- · All wires rated at 105C, 600V insulation.
- 1. LINE Black is tied to 120-277VAC Line power (Black incoming line)
- Neutral White is tied to incoming Neutral
- 3. LOAD IN Blue/White is the input/incoming Load line is tied to incoming "LINE" power. This could be same wire as #1 or it could be a separate "LINE" power. Perhaps coming from Emergency circuit
- 4. LOAD OUT Blue wire. This goes to the device to be powered.
- The Violet gets connected to the + side of the fixture's 0-10V dimming input and Gray gets connected to the side of the fixture's 0-10V dimming input.

OPERATION



- 1. LumaCAN Port
- 2. LumaCAN LED left side of DIP switch
- 3. Heartbeat/Configuration LED right side of DIP switch
- DIP Switches In middle
- 5. Emergency Sense Selector Switch At bottom of tub. (LINE MODE = AWAY from RJ45 CONNECTORS, CAN MODE = CLOSE to RJ45 CONNECTORS)

The LumaCAN LED: Flashes Green whenever there is LumaCAN traffic detected

Heartbeat LED: See chart below:

Indicator	Feature	Blink Rate (# blinks per second)	Duration	Possible Causes			
Red	Duplicate LumaCAN address	2	Until conflict is resolved	Another LumaCAN device is using the same address			
	UI Error didn't get value set in time	8	Until 60 seconds or UI setting restarted	Took too long to enter manual information			
	External watchdog fail safe circuit tripped.	Solid	Until watchdog circuit is no longer tripped	Application update failure, hardware failure			
White	LumaCAN address on switch matches current address	8	Until set or timed out after 10 seconds				
	Setting LumaCAN address and verifying address uniqueness	Solid	Until timed out after 10 seconds				
	Device didn't start, I/O not initialized	Solid	Until problem resolved	Hardware failure			
Blue	Low byte of LumaCAN channel number is locked in	8					
	Waiting for low byte to be locked in	Solid	Until set or timed out after 60 seconds				
Green	Normal operating condition	1					
	In boot loader	4	Until entering actual application	Application update failure if alternating with RED LED.			
	High byte of LumaCAN channel number is locked in	8	Single blink				
	Waiting for high byte to be locked in	Solid	Until set or timed out after 60 seconds				
Off	LumaCAN Overcurrent or failure	-	-				

Heartbeat LED status in various "failure" states are as follows:

Processor fails or failed application - RED

Resolution: Cycle Power. If a power cycle does not restore proper operation, remove LumaCAN connections and cycle power again. Do not reconnect LumaCAN until after normal operation is restored.

Processor in Reset or startup failure - WHITE

Resolution: Cycle Power. If a power cycle does not restore proper operation, remove LumaCAN connections and cycle power again. Do not reconnect LumaCAN until after normal operation is restored.

Off - Failure

- Resolution: Remove LumaCAN wires. If devices starts up, then there is either an
- Overcurrent or Short on the LumaCAN line. Resolve the problem and reconnect.
- Resolution: Check Control Power Input If Control Power Input is not valid the device will not start. Set CAN address to 255 and cycle power to erase application, then reprogram.

SETTING THE LUMACAN ADDRESS

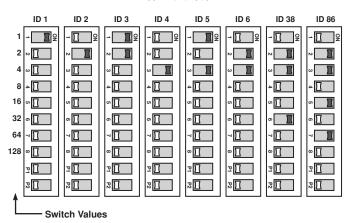
A unique LumaCAN address ID must be set for each DRC SmartPack. The first 8 switches of the DIP switch are used for setting the ID. During operation, DIP switches 9 & 10 must be in the off position. Valid node addresses are 1-250. If the node ID's are defined in your Contract Document,

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

To set the node ID, set the DIP switches to the desired ID following the process below:

NOTE: In all cases, DIP switches 9 & 10 should be in the off position.

ID Address Value = Sum of Switch Values ID 86 = 2+4+16+64



In case of address conflict, the heartbeat LED will blink Red, twice per second. If this occurs, please clear the conflict and try again.

SETTING THE STARTING LUMACAN CHANNEL (via DIP Switch)

Setting the channel number requires setting the universe number and the channel number within that universe. Valid universe numbers are 0-127, resulting in a channel range of 1-32,767. The chart shows each universe number, the channel range for that universe, the DIP switch setting for the

To set the channel number:

1. Set the Universe Number

- a. Turn on DIP Switch P2/10.
 - i. The LED Indicator should change to solid green indicating that the Smart Pack is awaiting entry of the universe number.
- **b.** Set DIP switches 1-8 to the required address of the universe number. Refer to the chart. For channel numbers between 1-256 it will be set to all 0's.
- c. When the address is set, lower DIP switch P2/10.
- i. The LED Indicator will start flashing Blue indicating that it is awaiting the channel

2. Set the Channel Number

- a. Raise DIP Switch P1/9.
- i. The LED indicator should go solid blue.
- b. Set DIP switches 1-8 to the required address of the channel number. Refer to the chart.
- c. Lower dip-switch P1/9.
- 3. Return DIP switches 1-8 to the desired LumaCAN address.
- a. While the addressing is being set, the LED indicator will go solid White. When address is set and operation restored, the LED will blink green once per second.

If the LED is flashing blue, it means it's awaiting the channel number. If the LED indicator is flashing green it indicates it is awaiting the universe number. They can be set in either order but both must be set every time.

TROUBLESHOOTING

Lights are ON after power outage

• This is the normal operation. The power pack has a fail-safe feature which forces the relay to close on loss of power. Approximately 7-10 seconds after power is restored the device will return to previous state and continue to monitor LumaCAN bus for any changes.

Device does not operate immediately after power ON

• This is the normal operation. The device has a 7-10 second startup time before it will begin operation.

Lights Flickering

- Lamp has a bad connection.
- · Wires not secured firmly with wire connectors. Lights did not turn ON

Circuit breaker or fuse has tripped.

- · Lamp is burned out.
- · Lamp Neutral connection is not wired.
- Heartbeat LED is either RED or WHITE · Represents a processor or application failure. Try power cycling the DRC Smart Pack.

APPLICATION RESET

If your device is "bricked", powering up the device with all dip switches in the on position will cause the current application to be deleted. Note that this will leave the device in an inoperable state until a software update is performed.

FACTORY DEFAULT

If you desire to return all settings to their factory default position, while the device is powered up, raise dip switches 1-8 to the ON position (P1 and P2 should remain in their OFF position). The LED will blink vellow indicating that factory defaults have been restored. Proceed to set the channel number and LumaCAN address.

Universe #	Channel	Actual (Channal	Universe									
			onannei nge	Dip				Channel Dip		etting			
	Range	Start	End	Switch Setting	00000000	00000001	00000010	00000011	00000100 annel Numb		11111101	11111110	111111111
0	1-255	1	255	00000000	1	1	2	3	4		253	254	255
1	256-511	256	511	00000001	256	257	258	259	260		509	510	511
2	512-767	512	767	00000010	512	513	514	515	516		765	766	767
3	768-1023	768	1023	00000011	768	769	770	771	772		1021	1022	1023
<u>4</u> 5	1024-1279	1024 1280	1279	00000100	1024	1025 1281	1026 1282	1027 1283	1028 1284		1277	1278 1534	1279 1535
6	1280-1535 1536-1791	1536	1535 1791	00000101	1280 1536	1537	1538	1539	1540		1533 1789	1790	1791
7	1792-2047	1792	2047	00000110	1792	1793	1794	1795	1796		2045	2046	2047
8	2048-2303	2048	2303	00001000	2048	2049	2050	2051	2052		2301	2302	2303
9	2304-2559	2304	2559	00001001	2304	2305	2306	2307	2308		2557	2558	2559
10	2560-2815	2560	2815	00001010	2560	2561	2562	2563	2564		2813	2814	2815
11	2816-3071 3072-3327	2816 3072	3071 3327	00001011	2816 3072	2817 3073	2818 3074	2819 3075	2820 3076		3069 3325	3070 3326	3071 3327
13	3328-3583	3328	3583	00001100	3328	3329	3330	3331	3332		3581	3582	3583
14	3584-3839	3584	3839	00001110	3584	3585	3586	3587	3588		3837	3838	3839
15	3840-4095	3840	4095	00001111	3840	3841	3842	3843	3844		4093	4094	4095
16	4096-4351	4096	4351	00010000	4096	4097	4098	4099	4100		4349	4350	4351
17	4352-4607	4352	4607	00010001	4352	4353	4354	4355	4356		4605	4606	4607
18 19	4608-4863 4864-5119	4608 4864	4863 5119	00010010	4608 4864	4609 4865	4610 4866	4611 4867	4612 4868		4861 5117	4862 5118	4863 5119
20	5120-5375	5120	5375	00010011	5120	5121	5122	5123	5124		5373	5374	5375
21	5376-5631	5376	5631	00010101	5376	5377	5378	5379	5380		5629	5630	5631
22	5632-5887	5632	5887	00010110	5632	5633	5634	5635	5636		5885	5886	5887
23	5888-6143	5888	6143	00010111	5888	5889	5890	5891	5892		6141	6142	6143
24 25	6144-6399	6144	6399	00011000	6144	6145	6146 6402	6147 6403	6148		6397	6398	6399
26	6400-6655 6656-6911	6400 6656	6655 6911	00011001	6400 6656	6401 6657	6658	6659	6404 6660		6653 6909	6654 6910	6655 6911
27	6912-7167	6912	7167	00011010	6912	6913	6914	6915	6916		7165	7166	7167
28	7168-7423	7168	7423	00011100	7168	7169	7170	7171	7172		7421	7422	7423
29	7424-7679	7424	7679	00011101	7424	7425	7426	7427	7428		7677	7678	7679
30	7680-7935	7680	7935	00011110	7680	7681	7682	7683	7684		7933	7934	7935
31	7936-8191 8192-8447	7936 8192	8191 8447	00011111	7936 8192	7937 8193	7938 8194	7939 8195	7940 8196		8189 8445	8190 8446	8191 8447
33	8448-8703	8448	8703	001000001	8448	8449	8450	8451	8452		8701	8702	8703
34	8704-8959	8704	8959	00100010	8704	8705	8706	8707	8708		8957	8958	8959
35	8960-9215	8960	9215	00100011	8960	8961	8962	8963	8964		9213	9214	9215
36	9216-9471	9216	9471	00100100	9216	9217	9218	9219	9220		9469	9470	9471
37	9472-9727	9472 9728	9727 9983	00100101	9472 9728	9473 9729	9474 9730	9475 9731	9476 9732		9725 9981	9726 9982	9727 9983
39	9728-9983 9984-10239	9984	10239	00100110	9984	9985	9986	9987	9988		10237	10238	10239
40	10240-10495	10240	10495	00101000	10240	10241	10242	10243	10244		10493	10494	10495
41	10496-10751	10496	10751	00101001	10496	10497	10498	10499	10500		10749	10750	10751
42	10752-11007	10752	11007	00101010	10752	10753	10754	10755	10756		11005	11006	11007
43	11008-11263	11008	11263	00101011	11008	11009	11010	11011	11012		11261	11262	11263
44 45	11264-11519 11520-11775	11264	11519	00101100	11264	11265	11266	11267	11268		11517	11518	11519 11775
46	11776-12031	11520	12031	00101101		11521 11777	11522	11523	11524 11780		11//3	12030	12031
47	12032-12287	12032	12287	00101111	12032	12033	12034	12035	12036		12285	12286	12287
48	12288-12543	12288	12543	00110000	12288	12289	12290	12291	12292		12541	12542	12543
49	12544-12799	12544	12799	00110001	12544	12545	12546	12547	12548		12797	12798	12799
50	12800-13055	12800	13055	00110010	1	12801	12802	12803	12804		13053	13054	13055
51 52	13056-13311 13312-13567	13056 13312	13311 13567	00110011 00110100	13056 13312	13057 13313	13058 13314	13059 13315	13060 13316		13309 13565	13310 13566	13311 13567
53	13568-13823	13568	13823	00110100	13568	13569	13570	13571	13572		13821	13822	13823
54	13824-14079	13824	14079	00110110	13824	13825	13826	13827	13828		14077	14078	14079
55	14080-14335	14080	14335	00110111	14080	14081	14082	14083	14084		14333	14334	14335
56	14336-14591	14336	14591	00111000	14336	14337	14338	14339	14340		14589	14590	14591
57 58	14592-14847 14848-15103	14592 14848	14847 15103	00111001 00111010	14592 14848	14593 14849	14594 14850	14595 14851	14596 14852		14845	14846 15102	14847 15103
58	15104-15359	15104	15359	00111010	15104	15105	15106	15107	15108		15101 15357	15102	15359
60	15360-15615	15360	15615	00111100	15360	15361	15362	15363	15364		15613	15614	15615
61	15616-15871	15616	15871	00111101	15616	15617	15618	15619	15620		15869	15870	15871
62	15872-16127	15872	16127	00111110	15872	15873	15874	15875	15876		16125	16126	16127
63	16128-16383	16128	16383	001111111	16128	16129	16130	16131	16132		16381	16382	16383
64 65	16384-16639 16640-16895	16384 16640	16639 16895	01000000	16384 16640	16385 16641	16386 16642	16387 16643	16388 16644		16637 16893	16638 16894	16639 16895
66	16896-17151	16896	17151	01000001		16897	16898	16899	16900		17149	17150	17151
67	17152-17407	17152	17407	01000010	17152	17153	17154	17155	17156		17405	17406	17407
68	17408-17663	17408	17663	01000100		17409	17410	17411	17412		17661	17662	17663
69	17664-17919	17664	17919	01000101	17664	17665	17666	17667	17668		17917	17918	17919
70	17920-18175	17920	18175	01000110	1	17921	17922	17923	17924		18173	18174	18175
71 72	18176-18431	18176 18432	18431	01000111 01001000	18176 18432	18177 18433	18178 18434	18179 18435	18180 18436		18429	18430 18686	18431
73	18432-18687 18688-18943	18432	18687 18943	01001000	18432	18433	18434	18435	18436		18685 18941	18686	18687 18943
74	18944-19199	18944	19199	01001001		18945	18946	18947	18948		19197	19198	19199
75	19200-19455	19200	19455	01001011	19200	19201	19202	19203	19204		19453	19454	19455
	19456-19711	19456	19711	01001100	19456	19457	19458	19459	19460		19709	19710	19711
76	ï		10067	01001101	19712	19713	19714	19715	19716		19965	19966	19967
77	19712-19967	19712	19967					400=:					
	19712-19967 19968-20223 20224-20479	19712 19968 20224	20223	01001101	19968 20224	19969 20225	19970 20226	19971 20227	19972 20228		20221 20477	20222	20223 20479

		Actual (Channel	Universe			,	manner Dip	Switching S	eung			
Universe	Channel Range		nge	Dip Switch	00000000	00000001	00000010	00000011	00000100		11111101	11111110	111111111
"	riange	Start	End	Setting				Actual Ch	annel Numb	er			
80	20480-20735	20480	20735	01010000	20480	20481	20482	20483	20484		20733	20734	20735
81	20736-20991	20736	20991	01010001	20736	20737	20738	20739	20740		20989	20990	20991
82	20992-21247	20992	21247	01010010	20992	20993	20994	20995	20996		21245	21246	21247
83	21248-21503	21248	21503	01010011	21248	21249	21250	21251	21252		21501	21502	21503
84	21504-21759	21504	21759	01010100	21504	21505	21506	21507	21508		21757	21758	21759
85	21760-22015	21760	22015	01010101	21760	21761	21762	21763	21764		22013	22014	22015
86	22016-22271	22016	22271	01010110	22016	22017	22018	22019	22020		22269	22270	22271
87	22272-22527	22272	22527	01010111	22272	22273	22274	22275	22276		22525	22526	22527
88	22528-22783	22528	22783	01011000	22528	22529	22530	22531	22532		22781	22782	22783
89	22784-23039	22784	23039	01011001	22784	22785	22786	22787	22788		23037	23038	23039
90	23040-23295	23040	23295	01011010	23040	23041	23042	23043	23044		23293	23294	23295
91	23296-23551	23296	23551	01011011	23296	23297	23298	23299	23300		23549	23550	23551
92	23552-23807	23552	23807	01011100	23552	23553	23554	23555	23556		23805	23806	23807
93	23808-24063	23808	24063	01011101	23808	23809	23810	23811	23812		24061	24062	24063
94	24064-24319	24064	24319	01011110	24064	24065	24066	24067	24068		24317	24318	24319
95	24320-24575	24320	24575	01011111	24320	24321	24322	24323	24324		24573	24574	24575
96	24576-24831	24576	24831	01100000	24576	24577	24578	24579	24580		24829	24830	24831
97	24832-25087	24832	25087	01100001	24832	24833	24834	24835	24836		25085	25086	25087
98	25088-25343	25088	25343	01100010	25088	25089	25090	25091	25092		25341	25342	25343
99	25344-25599	25344	25599	01100011	25344	25345	25346	25347	25348		25597	25598	25599
100	25600-25855	25600	25855	01100100	25600	25601	25602	25603	25604		25853	25854	25855
101	25856-26111	25856	26111	01100101	25856	25857	25858	25859	25860		26109	26110	26111
102	26112-26367	26112	26367	01100110	26112	26113	26114	26115	26116		26365	26366	26367
103	26368-26623	26368	26623	01100111	26368	26369	26370	26371	26372		26621	26622	26623
104	26624-26879	26624	26879	01101000	26624	26625	26626	26627	26628		26877	26878	26879
105	26880-27135	26880	27135	01101001	26880	26881	26882	26883	26884		27133	27134	27135
106	27136-27391	27136	27391	01101010	27136	27137	27138	27139	27140		27389	27390	27391
107	27392-27647	27392	27647	01101011	27392	27393	27394	27395	27396		27645	27646	27647
108	27648-27903	27648	27903	01101100	27648	27649	27650	27651	27652		27901	27902	27903
109	27904-28159	27904	28159	01101101	27904	27905	27906	27907	27908		28157	28158	28159
110	28160-28415	28160	28415	01101110	28160	28161	28162	28163	28164		28413	28414	28415
111	28416-28671	28416	28671	01101111	28416	28417	28418	28419	28420		28669	28670	28671
112	28672-28927	28672	28927	01110000	28672	28673	28674	28675	28676		28925	28926	28927
113	28928-29183	28928	29183	01110001	28928	28929	28930	28931	28932		29181	29182	29183
114	29184-29439	29184	29439	01110010	29184	29185	29186	29187	29188		29437	29438	29439
115	29440-29695	29440	29695	01110011	29440	29441	29442	29443	29444		29693	29694	29695
116	29696-29951	29696	29951	01110100	29696	29697	29698	29699	29700		29949	29950	29951
117	29952-30207	29952	30207	01110101	29952	29953	29954	29955	29956		30205	30206	30207
118	30208-30463	30208	30463	01110110	30208	30209	30210	30211	30212		30461	30462	30463
119	30464-30719	30464	30719	01110111	30464	30465	30466	30467	30468		30717	30718	30719
120	30720-30975	30720	30975	01111000	30720	30721	30722	30723	30724		30973	30974	30975
121	30976-31231	30976	31231	01111001	30976	30977	30978	30979	30980		31229	31230	31231
122	31232-31487	31232	31487	01111010	31232	31233	31234	31235	31236		31485	31486	31487
123	31488-31743	31488	31743	01111011	31488	31489	31490	31491	31492		31741	31742	31743
124	31744-31999	31744	31999	01111100	31744	31745	31746	31747	31748		31997	31998	31999
125	32000-32255	32000	32255	01111101	32000	32001	32002	32003	32004		32253	32254	32255
126	32256-32511	32256	32511	01111110	32256	32257	32258	32259	32260		32509	32510	32511
127	32512-32767	32512	32767	01111111	32512	32513	32514	32515	32516		32765	32766	32767
cc co	MPLIANCE	STATE	MENT										

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment.

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

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 A apparatus complies with Canadian ICES-003.

Use herein of third party trademarks, service marks, trade names, brand names and/or product names are for informational purposes only, are/may be the trademarks of their respective owners; such use is not meant to imply affiliation, sponsorship, or endorsement.

TECHNICAL SUPPORT

For Technical Support, please contact Leviton Manufacturing at EMCATechSupport@Leviton.com, or (800) 959-6004.

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 2 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 two 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, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequentia 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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