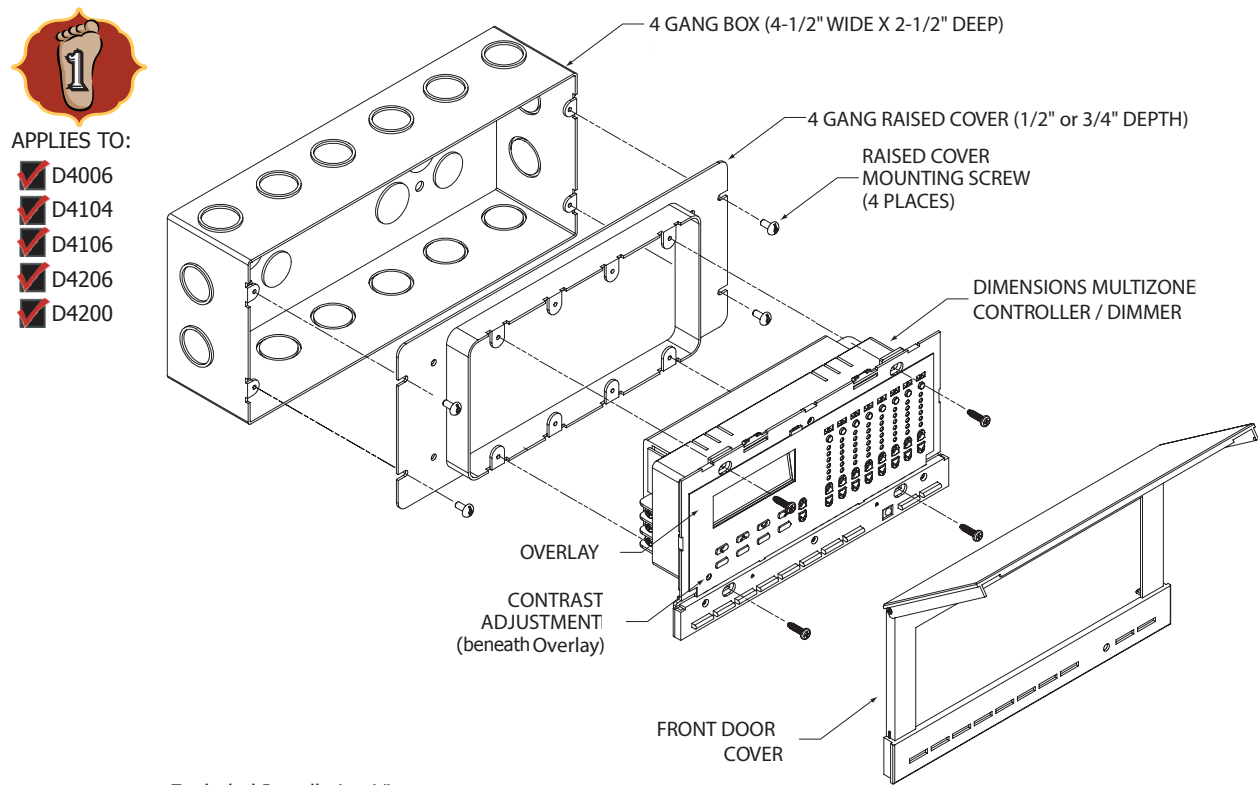


Installation Instructions

Dimensions 4000 series architectural controller

Applies to models: D4104, D4106, D4200, D4206, & D4006



Exploded Installation View

Items required for installation

- Suitable Backbox
 - Preferred 4 gang 'Gang Box', Raco #943 Leviton P/N BBG04-000
 - 5 gang device backbox
- Appropriate backbox device plate
 - Raised cover for 4 gang gang box Leviton P/N WPG04-00R
 - 4 gang reducer "mud ring" for 5 gang device backbox
-

D4006, D4104, D4106, D4206	D4200
<ul style="list-style-type: none">Input power (see specs)Output to loadsOptional Luma-Net network connection	<ul style="list-style-type: none">Luma-Net network connection



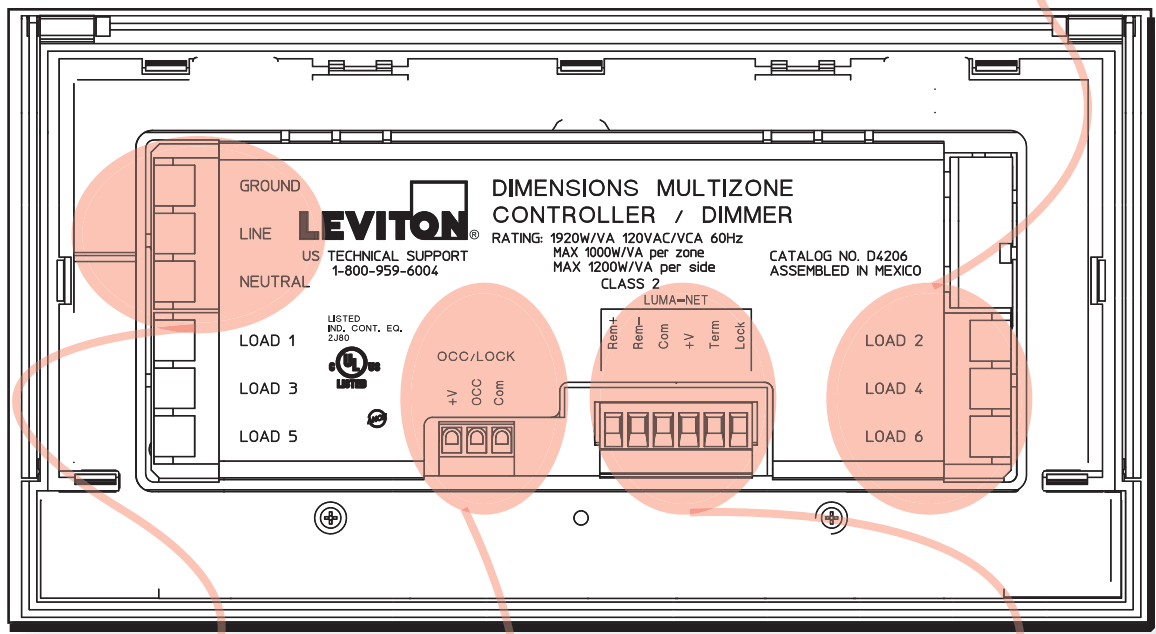
APPLIES TO:

- D4006
- D4104
- D4106
- D4206
- N/A D4200

General Installation Steps

- Read all installation instructions and plan entire system
- Determine location for device and install the appropriate backbox

D4006, D4104, D4106, D4206	D4200
<ol style="list-style-type: none">Connect input power.Connect power to loads.Make connections to network (if applicable.)Inspect wiring.Install device in wall.Power up & test system.Configure.	<ol style="list-style-type: none">Make network connections.Inspect wiring.Install device in wall.Power up & test system.Configure.



APPLIES TO:

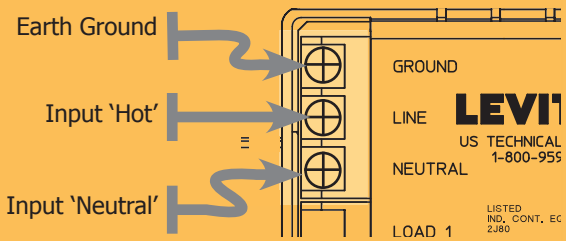
- D4006
- D4104
- D4106
- D4206
- D4200



APPLIES TO:

- D4006
- D4104
- D4106
- D4206
- N/A D4200

Power Input



Installation Steps:

- Connection to dedicated input power circuit recommended.
- Confirm input circuit has enough available power for controller plus all connected loads.
- Connect line, neutral, and ground to terminals as indicated.

Notes:

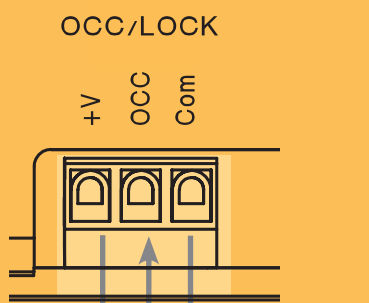
- Use Copper Wire only
- Max (2) #12AWG per terminal
- Tighten terminals to 9in-lbs torque
- 75° min insulation temperature rating
- Remove 3/8" insulation from each circuit conductor



APPLIES TO:

- N/A D4006
- D4104
- D4106
- D4206
- D4200

Auxiliary Input



Background:

Some models allow an external input which can trigger scene and/or device lockout. This can be used when it is desired to lockout a device by keyswitch, preventing access from the front panel, or when an Occupancy Sensor is used to turn on the lights.

Installation Steps:

- Connect +V/COM terminals to the power input of the signal device.
- Output from the signalling device shall be connected to the OCC terminal.

Notes:

- When using low voltage wire with a rating of less than 600V, insulate with the included shrink tube sleeve.
- Occ terminal requires +V to signal lock/occ mode.
- Available power for all peripherals can not exceed 300mW.
- Use Copper Wire only
- Terminals accept #30-12AWG
- Tighten terminals to 7in-lbs torque
- 75° min insulation temperature rating
- Remove 3/8" insulation from each conductor.

WARNINGS

- To be installed only by a qualified Electrician
- Rated for indoor use only
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are not sure about any part of these instructions, consult a qualified electrician and Leviton Tech Support at (800)959-6004.
- DO NOT connect line voltage wires to low voltage terminals. Product destruction in this manner voids the warranty.
- To reduce the risk of over-heating and possible damage to this device and other connected equipment, do not allow the connection of any portable device or for connections to a wall receptacle.
- Do not connect to any unsupported load type (see device specifications).
- ALWAYS disconnect power when servicing this or any electrical device.

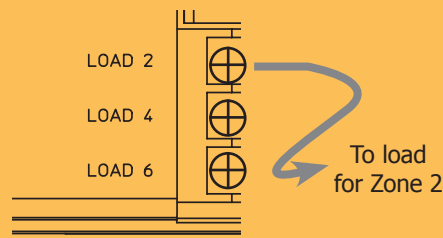
CAUTIONS

- All magnetic low voltage transformers should incorporate a thermal cut-out or fuse on the primary windings in case of over-heating or failure.
- All fluorescent lighting fixtures must be grounded
- For use with copper wire only
- DO NOT mix load types on a single zone (ie: Tungsten, Fluorescent, Magnetic low voltage, etc.)
- Observe all lamp and fixture manufacturer recommendations, warnings, and instructions.

SPECIFICATIONS

Power Input (D4200 N/A)	120VAC 60hz, 10% tolerance	230VAC 50/60hz, 10% tolerance
Power Output (D4200 N/A)	<ul style="list-style-type: none">1000 Watts max per zone, minimum load 15W per zone1200 Watts max per side1920 Watts max per device	<ul style="list-style-type: none">800 Watts max per zone, minimum load 15W per zone1200 Watts max per side2400 Watts max per device
Supported load Types (D4200 N/A)	<ul style="list-style-type: none">IncandescentTungstenMagnetic Low Voltage2-Wire Fluorescent (Advance Mark 10, Lutron Tu-Wire)Electronic Low Voltage when rated for use with forward phase dimmersNeon / Cold CathodeNon-dim loads	
Listings & Certifications	<ul style="list-style-type: none">UL/cULCalifornia Title 24FCC Part 15, Class A	Not for use in North America
Environmental	0°-40°C <= 90% non-condensing humidity	
Clock	Accuracy to +/- 15 seconds per week Astro Clock accurate to with 15 minutes	
Memory	Lifetime memory of configuration and recorded memories. Clock maintained for up to 10 days in the event of power failures	

Line Voltage Load Termination



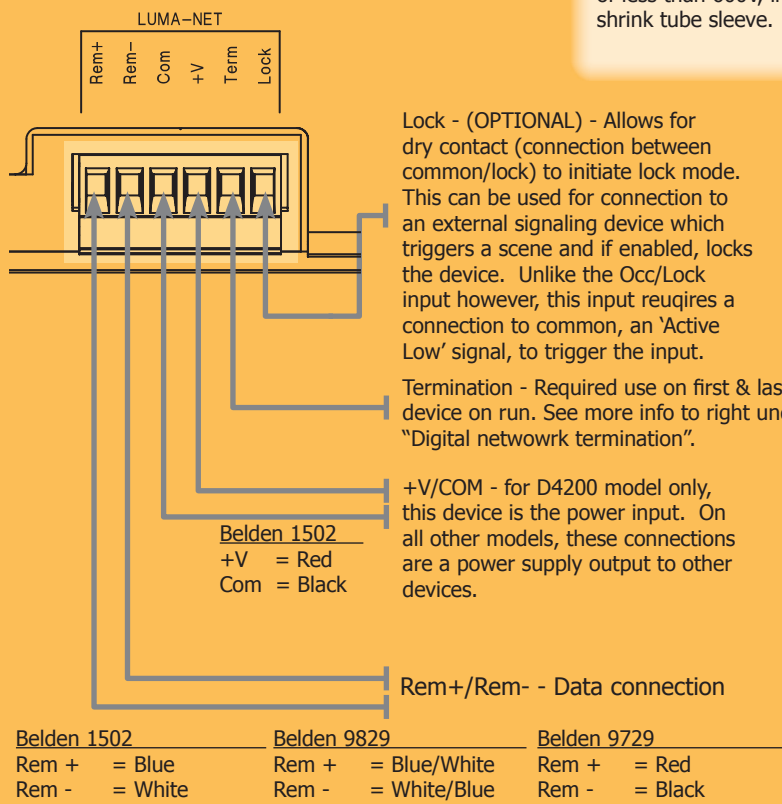
Notes:

- Use Copper Wire only.
- Max (2) #12AWG per terminal.
- Torque terminals to 9in-lbs.
- 75° min insulation temperature rating.
- Remove 3/8" insulation from each circuit conductor.
- The number of outputs on a specific model may differ from that shown.

Install Steps:

- Confirm that the load (watts) is within the specifications for your model as shown in the specification chart.
- Confirm that the load type is supported. Load types can be found in the specification chart.
- Identify the terminal to which you need to connect the load, strip the wire as appropriate, and install to the appropriate load terminal.

Luma-Net Network



Lock - (OPTIONAL) - Allows for dry contact (connection between common/lock) to initiate lock mode. This can be used for connection to an external signaling device which triggers a scene and if enabled, locks the device. Unlike the Occ/Lock input however, this input requires a connection to common, an 'Active Low' signal, to trigger the input.

Termination - Required use on first & last device on run. See more info to right under "Digital network termination".

+V/COM - for D4200 model only, this device is the power input. On all other models, these connections are a power supply output to other devices.

Rem+/Rem- - Data connection

Background:

The Luma-Net network is used for entry stations, partition control/room combine stations, dimmer cabinets, relay cabinets, and other devices which may be required.

Installation Steps:

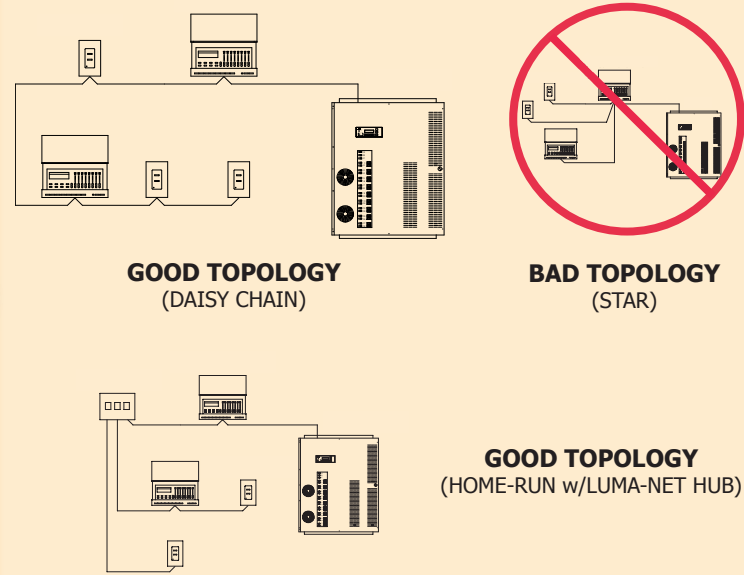
- Connect all wires as shown. Observe all notes, instructions, and low voltage digital network data cable installation best practices.
- If necessary, install termination jumper. Termination is required only at both ends of the run. DO NOT terminate mid-point devices.

Notes:

- Luma-Net networks require a daisy chain topology
- Use Belden #1502R or #1502P for inter-connection of devices. Belden #9829, #9729, & #88102 are also supported wire types, however, an addition pair of (2) #18AWG wires is required.
- A maximum run length of 2000 feet is supported on the data pair.
- Torque terminals to 7in-lbs.
- 75° min insulation temperature rating.
- Remove 3/8" insulation from each circuit conductor.
- Only 1 power supply is allowed on any network segment. If other power supplies are already supplying power to the network segment, do not connect +V between sources. Consult factory if unsure as to the proper power routing or connections for the network.
- Terminals support 30-12AWG stranded wire.

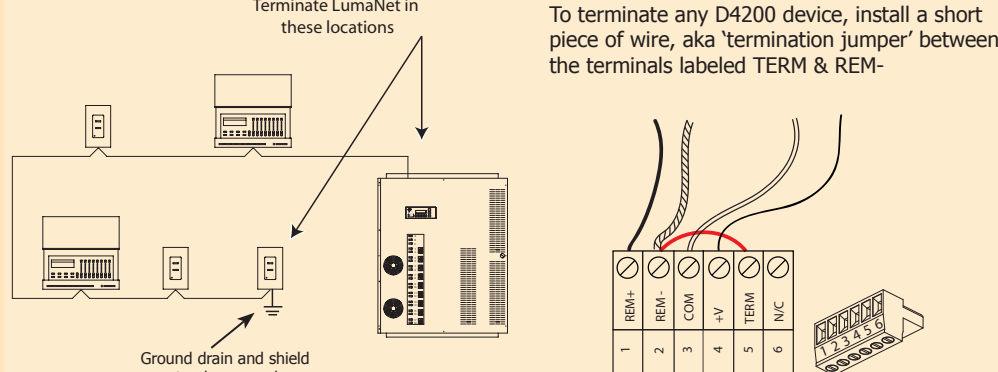
Daisy Chain Topology:

Daisy-chain topology is required for each Luma-Net segment. Star or other similar topologies are not allowed. If multiple home-runs are required, this topology can be supported when a Luma-Net Hub, P/N LHUB8-000, is used.:



Digital network termination:

The Luma-Net network requires that both ends of the network be terminated:



Power Calculation:

When using the D4006, D4104, D4206, or D4206 as a supply to the Luma-Net network, ensure that there is enough supply current.

AVAILABLE SUPPLY CURRENT:
+24Vdc, 300ma (12 Unit loads)

D4200 single gang devices each require 1 Unit Load
D4200 LCD stations each require 2 Unit Loads
Luma-Net hubs require 3 Unit Loads

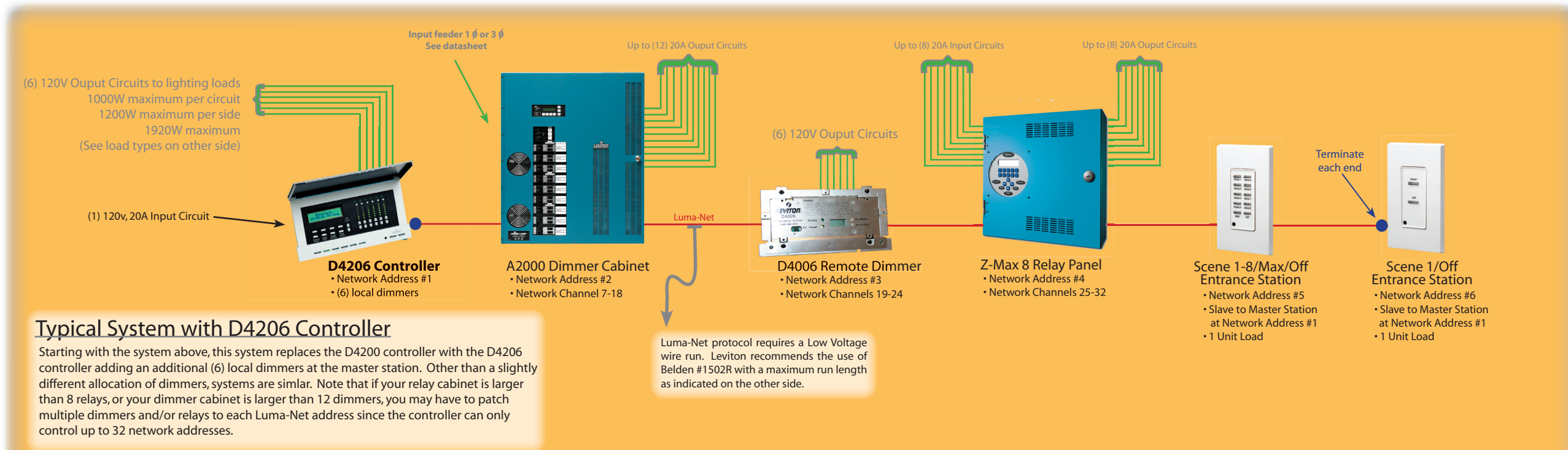
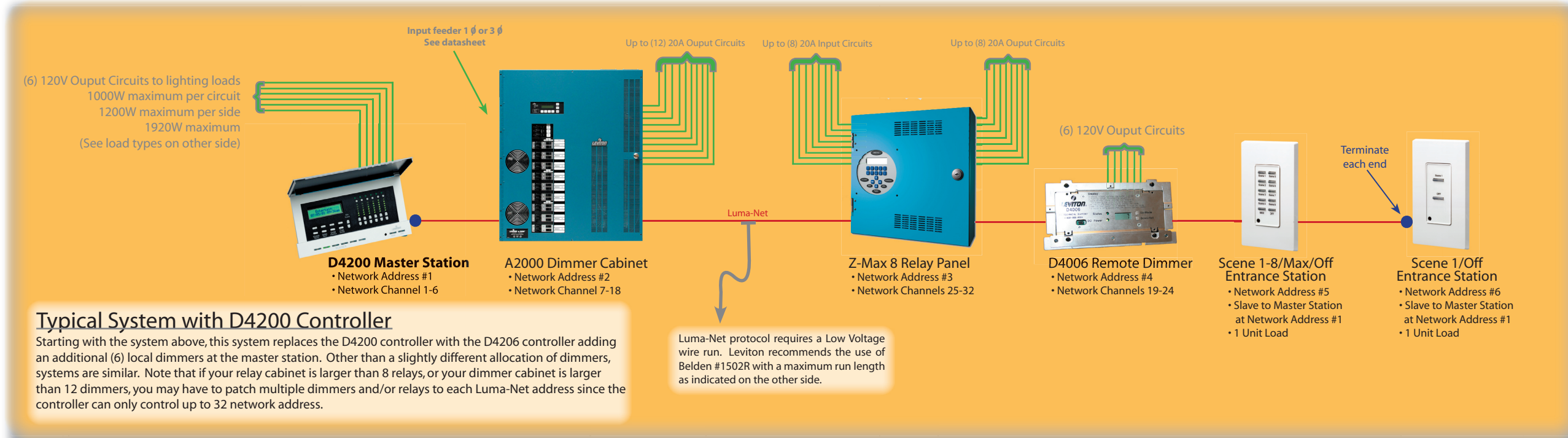
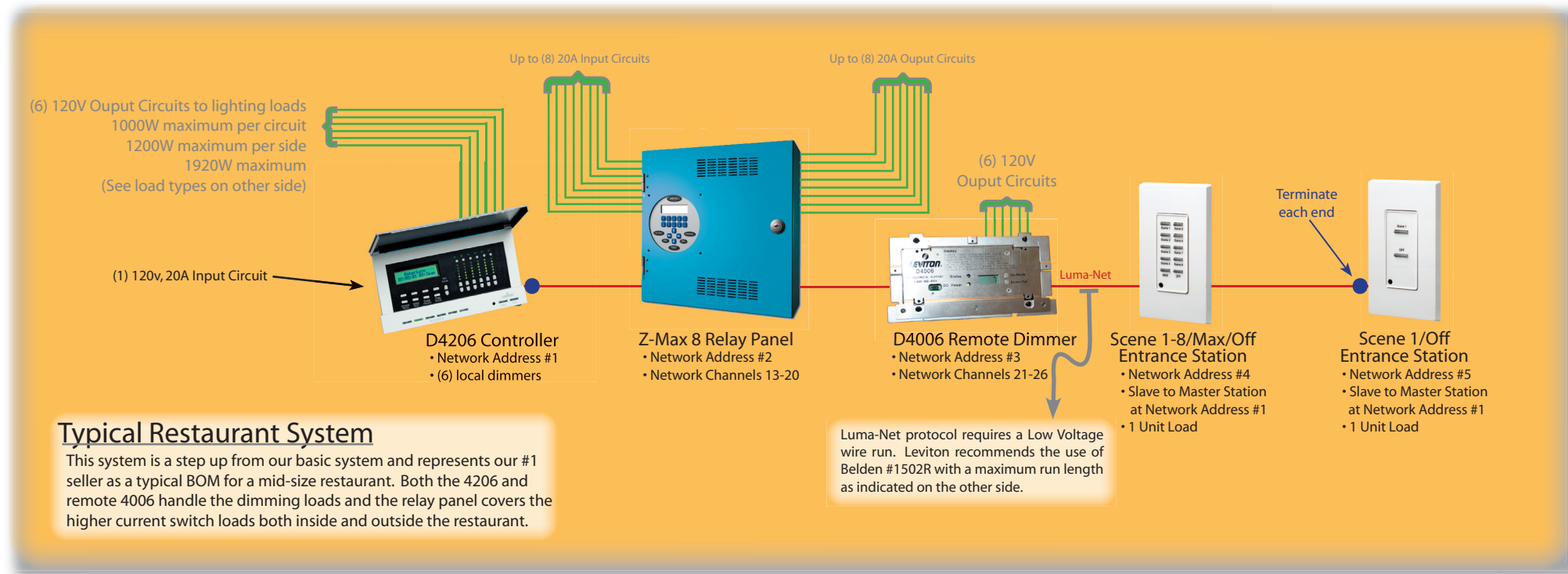
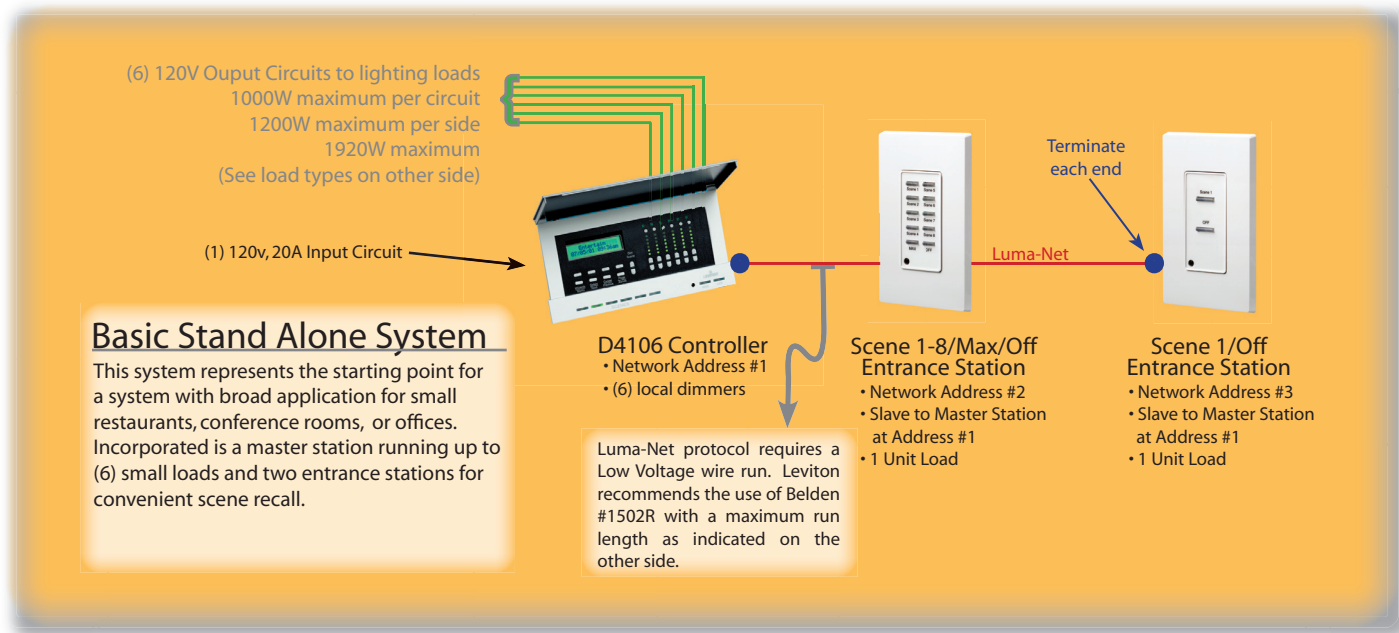
When using **Belden 1502R (or 1502P)**, the following maximum run lengths apply:

Unit Loads	Max run length (ft)
10	3,528
20	1,764
30	1,176
40	882

For applications which do not fit these conditions please contact the factory for assistance.



Leviton Manufacturing, Inc.
Lighting Management Systems Division
20497 SW Teton, Tualatin, Oregon, 97062
800.736.6682 - Customer Service
800.959.6004 - Technical Support



Typical Systems

These diagrams represent typical systems which are included as reference designs. Systems may deviate from what is shown herein, however, the principals remain sound. Select a system which closely represents system to be installed, then extend it as necessary. For questions or specific application help, please contact a Leviton sales representative or Leviton Technical Support directly at (800) 959-6004. When inquiring about a specific system it is helpful to have the Leviton bill of materials or equipment list for your particular project.

