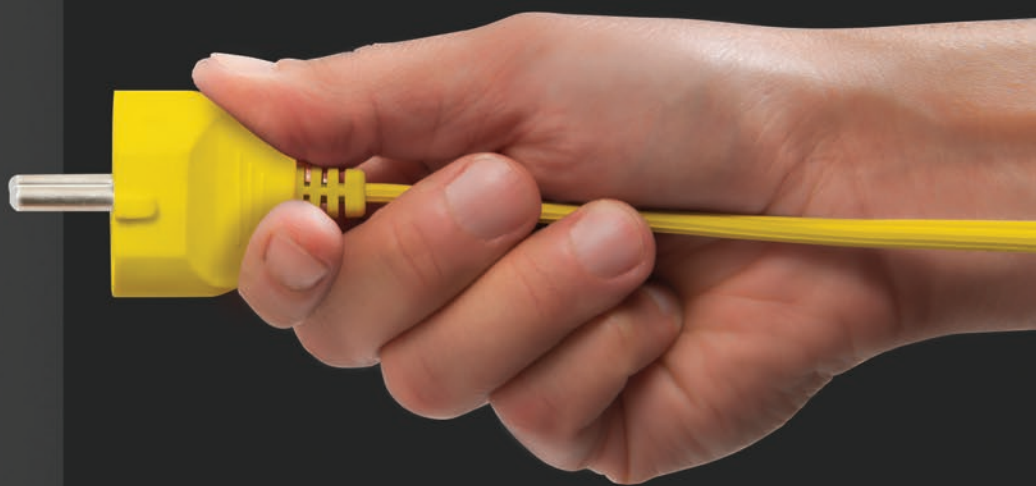


lumenpulse™

lumen **talk™**

Effortless, affordable lighting control
using existing power lines.





Lumentalk enables you to introduce modern lighting control over your existing electrical wires without having to install new cables, saving you time, money and hassle.

What does Lumentalk say?

These are just some of my superpowers.



Unlike wireless, I'm secure.
I can't be hacked remotely.

I am future proof.
As your space evolves,
I easily adapt.

I make converting to LED
effortless and affordable.

I save you the cost of
adding new wiring,
costly renovations, and
altering your structure.

With me, your existing,
AC wires become data-
carrying, colour-changing,
digital communicators.

I won't harm the architecture.
No need for new conduits
or drilling new holes through
old stone.

I speak all the languages:
DMX, DALI, TRIAC, 1-10V.



What's new with you, Lumentalk?

After over four years of solving your lighting control challenges, Lumentalk has evolved further into the future.



Colour Changing

You now have full colour-changing control, RGB, RGBW, or RGBA. Whatever the season, whatever the celebration, Lumentalk will help you tell your lights what to wear.



Dynamic White and Warm

Now all your Dynamic White and Warm wishes will be granted. Enjoy the full flexibility of tuning the colour temperature of your luminaires to your life.

DALI

Lumentalk can speak all the control protocols and is now compatible with DALI, as well as TRIAC, 1-10V, and DMX.

Colour changing the Lumentalk way.

Lumentalk gives you the option of choosing changeable RGB, RGBW, and RGBA colours over your existing AC wiring without the addition of data cables.

- Change the mood and look of your space without any new cables.
- Breathe colour into your projects at a fraction of the cost.
- A no-hassle way to draw attention to any space.

The most cost-efficient way to give your projects a colourful life.

Static Colour

Use colour to mark occasions and celebrate events.



🕒 0 min.



🕒 1 min.



🕒 2 min.

Slow Fade

Attract attention and turn your building into a dynamic, eye-catching structure.



🕒 0 min.



🕒 5 min.



🕒 10 min.

Lumentalk is ideal for the vast majority of your architectural lighting needs, but if you are looking for a fast colour show, our DMX/RDM systems are the way to go. Ask our support team for more information.

Dynamic White and Warm the Lumentalk way.

Adjusting the colour temperature of your light source can completely change the look and mood of a space.

- Get all the benefits of dimmable Dynamic White and Warm without new cables.
- Take advantage of adjusting colour temperatures and whites to change the mood, ambiance, and character of a space.
- Create and maintain a more human-friendly space.

**Human-centric lighting
is more affordable than
ever before.**

Dynamic White

As applications and needs change, Dynamic White adapts, creating perfect white light for all settings.



🕒 7 AM – 6000K



🕒 12 PM – 5000K



🕒 4 PM – 3000K

Dynamic Warm

Create a full, dim to warm ambiance that is programmed to your design and brand.



🕒 7 PM – 2700K
100% intensity



🕒 10 PM – 2500K
50% intensity



🕒 12 PM – 2200K
10% intensity



What can Lumentalk do for me?

1. Save you energy costs

Adding lighting control has never been so easy. Change the way your luminaires behave and save.

2. Save you the cost of installing new cables

Using your existing electrical wiring as a data carrier means you don't need to buy new cables.

3. Give you flexibility

Set scenes and ambiance, control the intensity and colours of your luminaires. Change the scenes at any time.

4. Be Dynamic

Simulate the drama of daylight and embrace colour with the hassle-free flexibility of DMX.

5. Breathe new life into your track lighting

Each luminaire on a standard track can be individually controlled.

**Now every luminaire
has a voice.**



THE CHALLENGES OF ADDING LIGHTING CONTROL

Lumentalk says, No problem.

1. Heritage Buildings



Easy, no need to re-wire or scratch the art. Using the existing power lines means you don't need to alter or compromise the existing architecture.

2. Wiring Obstacles



Steel girders, thick cement, no problem. Physical obstacles such as walls, busy streets, or pristine lawns can be easily conquered by using existing power lines.

3. Cost! Cost! Cost!



Construction time and long shutdowns will be greatly reduced. There is no need to buy metres of new data cables and pay for their installation.

4. Accessibility



Too high? Too far? Too wide? Too much? Not any more. Hard to reach places that could cost you a fortune to access and retrofit are no problem.

Lumentalk is changing the way the world thinks about lighting control.



Lumentalk has solved these challenges and more in over 400+ projects. Look at what Lumentalk can do for you.

Whether it's thick concrete,
or busy streets, Lumentalk
can handle the challenge.



The Boston City Hall

Lumentalk used the existing wiring as a digital addressable network of communication to achieve full-colour control capabilities without drilling through the 1-metre thick, concrete walls.

Lumentalk benefits



Architectural
Preservation



Control



No New Cables



Colour-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.

Preserved the historical structure intact.

Brought dynamic light to a site that was previously challenging.

Saved thousands of dollars on new data cables and control boxes.

What was required

311 × Lumentalk-enabled luminaires

12 × Lumenlink

3 × Lumentranslator 2

1 × Pharos controller

What was not required

Thousands of metres of new data wiring.

Hours of additional labour.

Months of disruptive construction.

Additional conduits.

Drilling through the thick, concrete structure.

Lumentalk saved the day by not having to run control wiring through the stone and brick of this heritage structure.



Lumentalk can give you control over kilometres of wiring, extending DMX well beyond its regular reach.



The John A. Blatnik Bridge

Lumentalk technology was used to bring LED lighting to Blatnik Bridge, saving the installation of new conduits, cables, and labour. The new lighting system reduced energy usage by 60%, increased flexibility and simplified maintenance.

Lumentalk benefits



Control



No New Cables



Accessibility



Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring across a bridge that is 2,430 metres long.

Reduced energy usage by 60%.

Saved thousands of dollars on new data cables and control boxes.

What was required

90 × Lumentalk-enabled luminaires

1 × Lumenlink

1 × Lumentranslator 2

1 × Pharos controller

What was not required

Thousands of metres of new data wiring.

Hours of additional labour.

Months of disruptive construction and bridge closures.

Additional conduits.

The installation of control boxes.



Electrical wiring is everywhere. Use it to gain control of those hard to reach places.

The architectural significance of historic buildings won't be compromised by new conduits or drilling.



Chateau Frontenac, Quebec City, QC, CAN
Photographer: Claude Mathieu



The Chateau Frontenac

Lumentalk allowed the addition of colour-changing, digital controls to the historic facade of this chateau without damaging the structure with the addition of new cables and conduits.

Lumentalk benefits



Architectural Preservation



Control



No New Cables



Colour-changing



Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Preserved the historical structure.
Brought dynamic light to a site that was previously challenging.

What was required

- 6 x Lumentalk-enabled luminaires
- 1 x Lumenlink
- 2 x Lumentranslator 2
- 1 x Lumentouch 2.0

What was not required

- New data wiring.
- Hours of additional labour.
- Disruptive construction.
- Additional conduits.

Lumentalk lets you brighten
a piece of art without
scratching the paint.



St. James Cathedral, Seattle, WA, USA
Lighting Design: Eluned Lighting

Dramatic lighting without
the drama of installation.

DMX sophistication without
the hassle.



Buckley Hall, Amherst, MA, USA
Lighting Design: Horton Lees Brogden



The Buckley Recital Hall

Lumentalk brought flexible digital lighting control without any rewiring. The new design has reduced maintenance costs by \$50,000 (USD) per annum.

Lumentalk benefits



Architectural
Preservation



Control



No New Cables



Accessibility



Economical

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Saved historically significant ceiling from being drilled into.
Brought control and zonal flexibility.
Reduced maintenance costs by \$50,000 (USD) per annum.

What was required

164 × Lumentalk-enabled luminaires
3 × Lumenlink
3 × Lumentranslator 2

What was not required

New data wiring.
Hours of additional labour.
Months of disruptive construction.



Lighting applications can be easily and quickly updated and reconfigured.

Say goodbye to tearing up the street for new cables. Lumentalk turns the streets into a colourful experience at a fraction of the cost.



Castro Street Business District, San Francisco, CA, USA
Lighting Design: Lighting Systems Inc.



Castro Street

Lumentalk enlivened San Francisco Castro's Street Business District with colour-changing, digitally programmed LEDs without having to tear up the street.

Lumentalk benefits



Control



No New Cables



No Construction



Economical



Colour-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Made colour changing possible.
Saved thousands of dollars not digging cables and control boxes.

What was required

48 x Lumentalk-enabled luminaires
1 x Lumenlink
2 x Lumentranslator 2
1 x Lumentouch 2.0

What was not required

Thousands of metres of new data wiring.
Hours of additional labour.
Complicated building permits.
Months of disruptive construction.

Lumentalk brought DMX colour control to pole-mounted projectors without ruining the lawn.



Even the most impenetrable structures can be given dynamic and flexible controls.



Muider Castle, Muiden, NLD
Lighting Design: Unique Brands b.v.



Muider Castle

Lumentalk gave the Muider Castle the freedom to upgrade to RGBW without having to excavate the surrounding grounds.

Lumentalk benefits



Control



No New Cables



No Construction



Economical



Colour-changing

How Lumentalk solved it

Converted DMX data so it could be sent over AC wiring.
Preserved the surrounding landscape and structure.
Brought control and zonal flexibility.
Converting to LED dropped energy costs by 80%.
Saved thousands of dollars not digging cables.
Saved thousands of dollars on control boxes.

What was required

12 x Lumentalk-enabled luminaires
1 x Lumenlink
1 x Lumentranslator 2

What was not required

Thousands of metres of new data wiring.
Hundreds of hours of additional labour.
An archaeological assessment or building permits.
The excavation of the surrounding landscape.

Lumentalk turns the tables
on your old AC mains
by making them work for
you as data cables.

**You've seen Lumentalk
working through real
problems. It feels like
magic but it's actually
technology. Here's a look
behind the curtains
at how Lumentalk will
work for you.**

The Lumentalk System

1. Controller



1-10V



TRIAC



Pharos®



DALI

2. Data translator



Lumentranslator 2

Translates input from controls and converts it to a digital signal over the power lines.



Lumenlink

The bridge that carries Lumentalk communication across multiple circuits and phases.



Lumentalk data bridge

Enables a digital interface for Lumenpulse Group luminaires that aren't Lumentalk enabled.

3. Lumentalk enabled luminaires

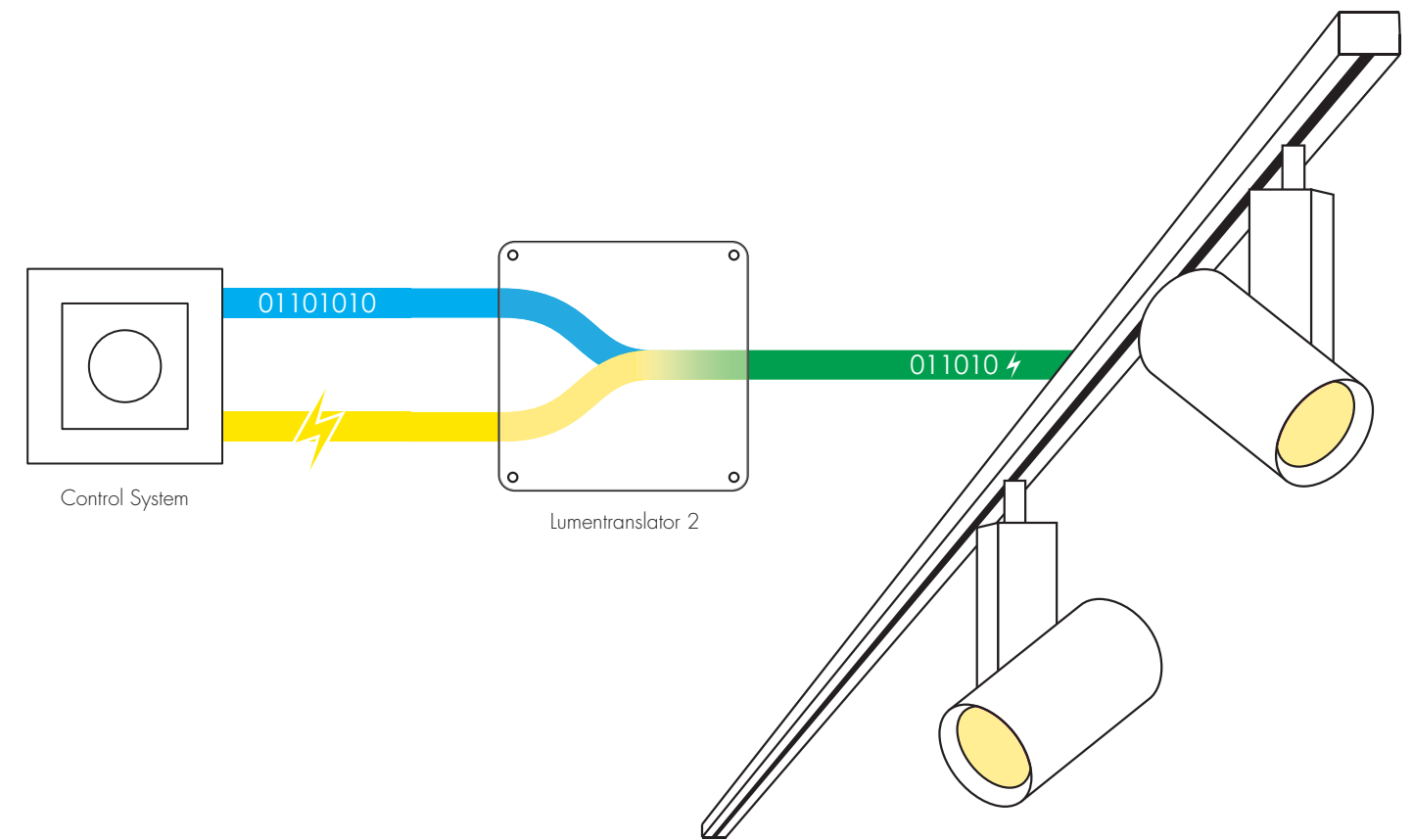


Outdoor products

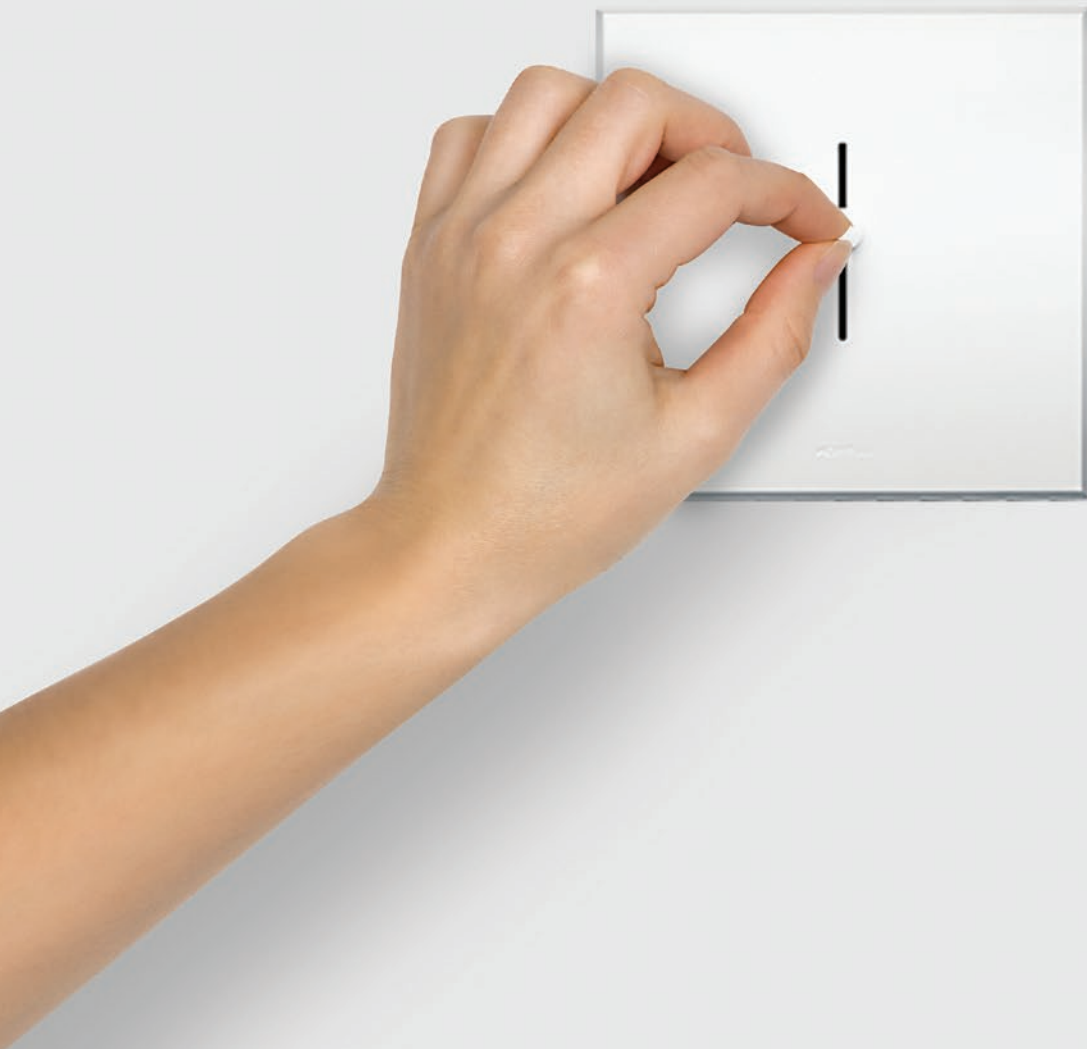


Indoor products

How does Lumentalk work?



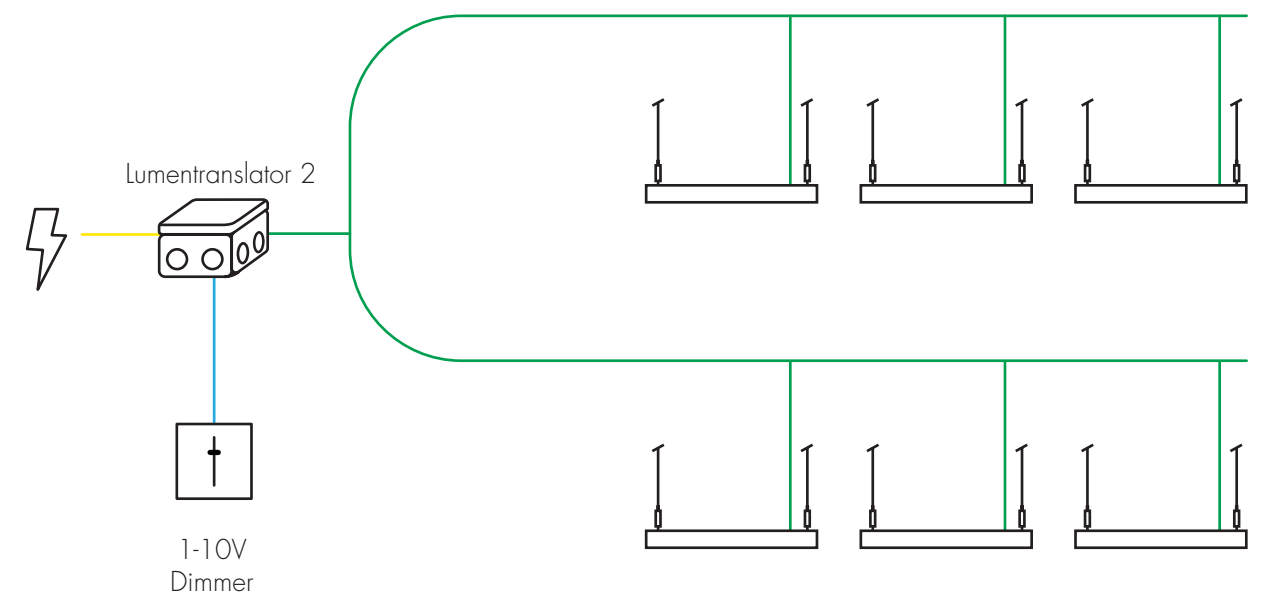
1. Your dimmer or control system speaks to a Lumentranslator 2.
2. The device passes the message on to your luminaires over the power line.
3. A digital, bidirectional control is established. Now, every luminaire has a voice and can send you information about itself in order to be commissioned.



1-10V with Lumentalk

Benefits

- A 1-10V controller with digital flexibility can create groupings and zones.
- Multiple dimmers can be used. Assign and reassign luminaires to your controllers.
- Decide which luminaires your controller speaks to.
- No second wire.
- The ability to dim to 1%.



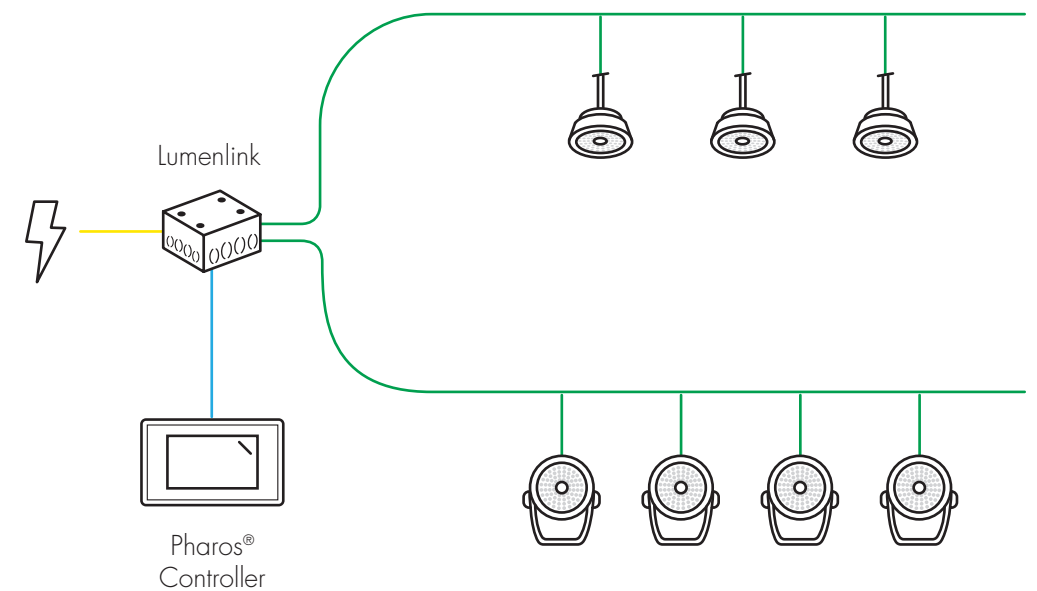
— Power line
— Data
— Data over power line



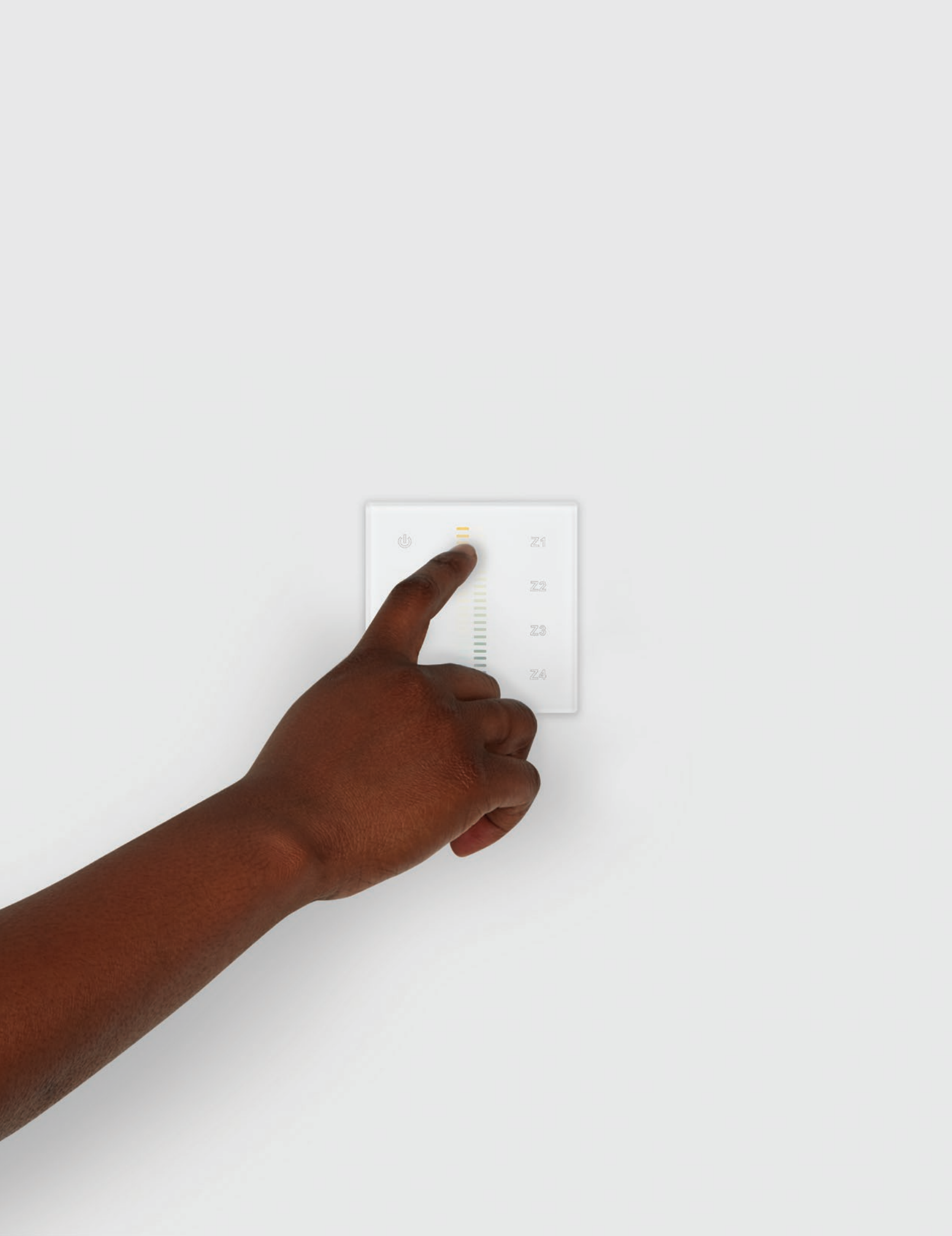
Pharos[®] with Lumentalk

Benefits

- Simpler, no additional control boxes required (CBX, etc.).
- Works over longer distances than traditional DMX.
- No additional wiring.
- Allows you to enjoy the freedom of colour-changing.
- Simplifies the adoption of dynamic lighting.



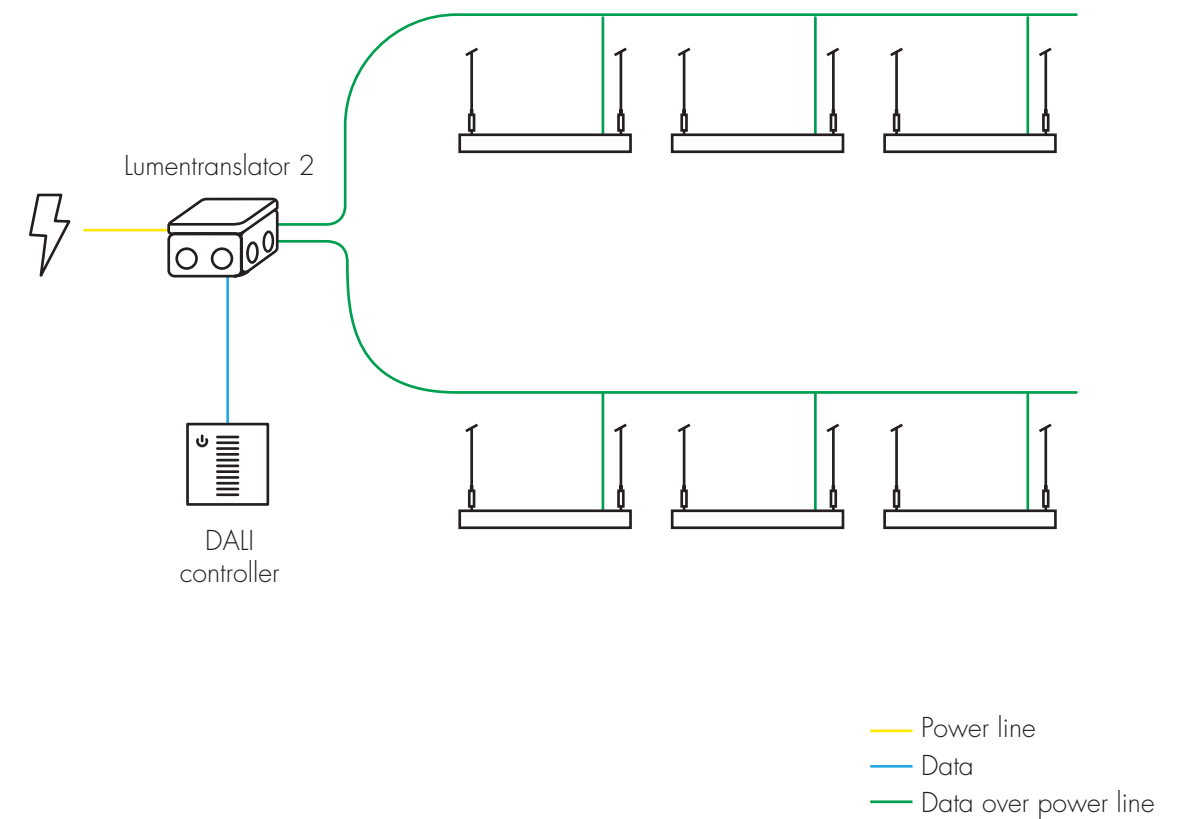
— Power line
— Data
— Data over power line



DALI with Lumentalk

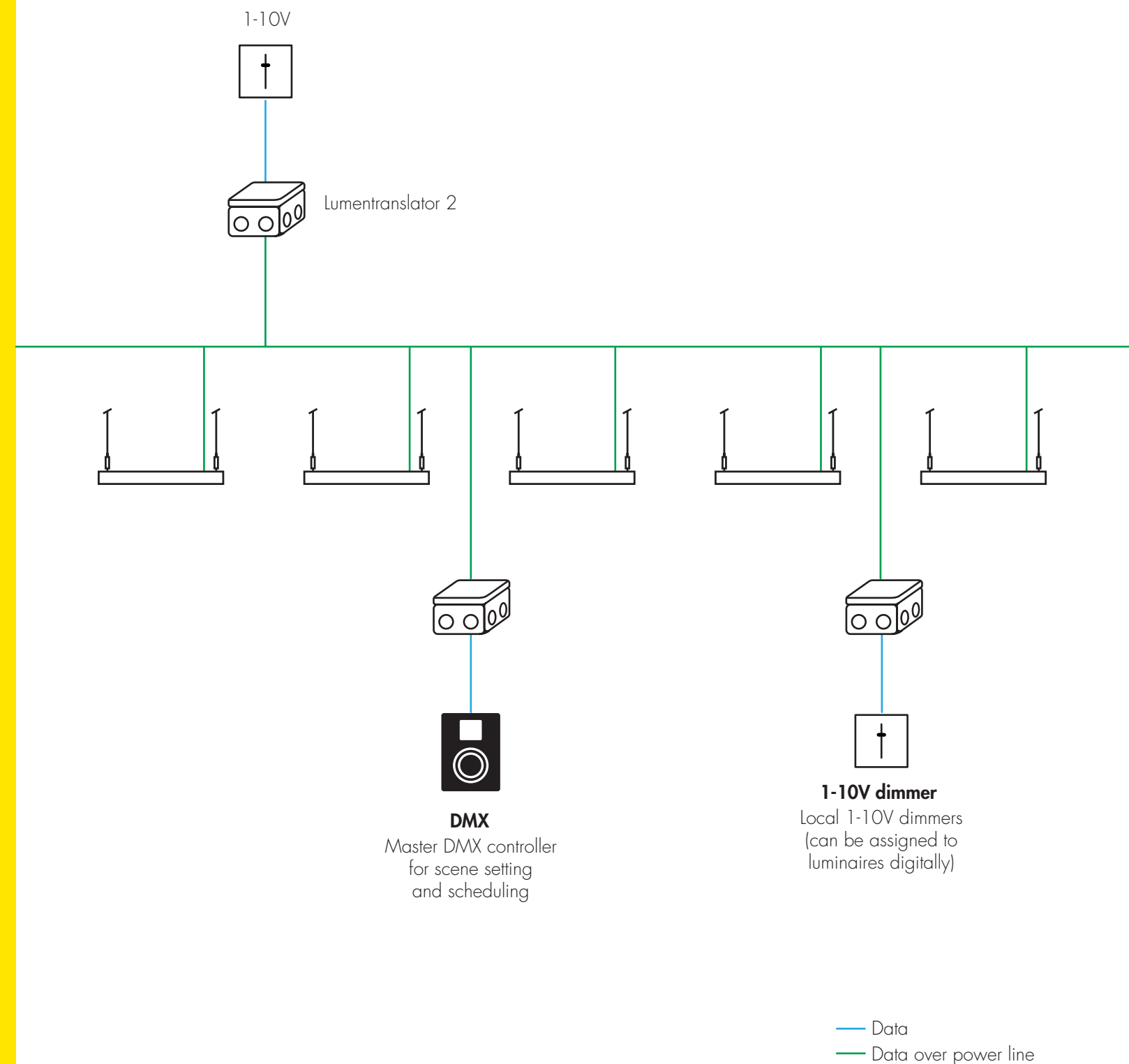
Benefits

- Ease of installation.
- No new control cables.
- The potential to extend your DALI system.
- Allows the individual control of each luminaire.
- Creates a future-proof system that can be added to at any time.



Multiple Controls in a Lumentalk System

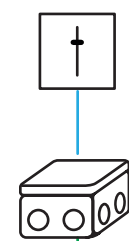
Lumentalk lets you use multiple control protocols at once. Assign and reassign these controls to your luminaires as often as you like.



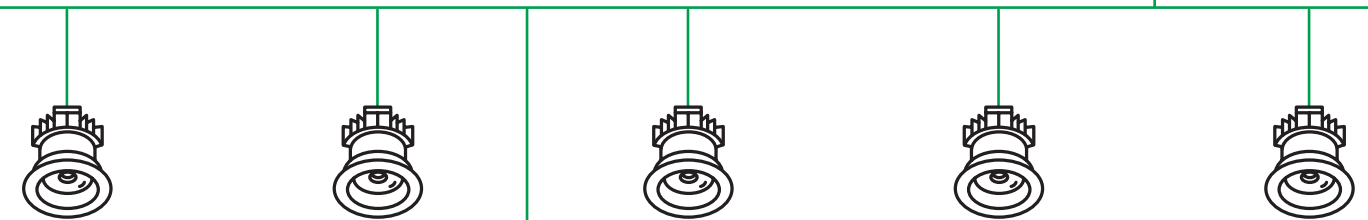
The Role of Lumenlink in a Lumentalk System

Lumenlink is the bridge that carries Lumentalk communication across multiple circuits and phases, allowing for the creation of a seamless lighting control network across an entire project.

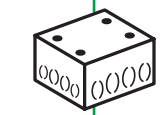
1-10V
Use as many 1-10V dimmers as you like for local dimming.



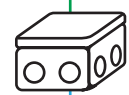
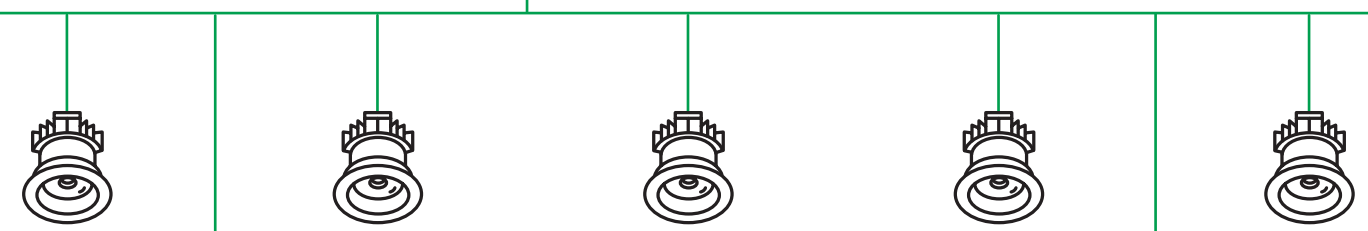
Phase 1



Lumenlink
links multiple phases



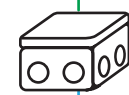
Phase 2



Lumentranslator 2

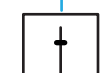


DALI controller
Master DALI controller for scene setting and scheduling



Lumentranslator 2

1-10V dimmer
Local 1-10V dimmers (can be assigned to luminaires digitally)

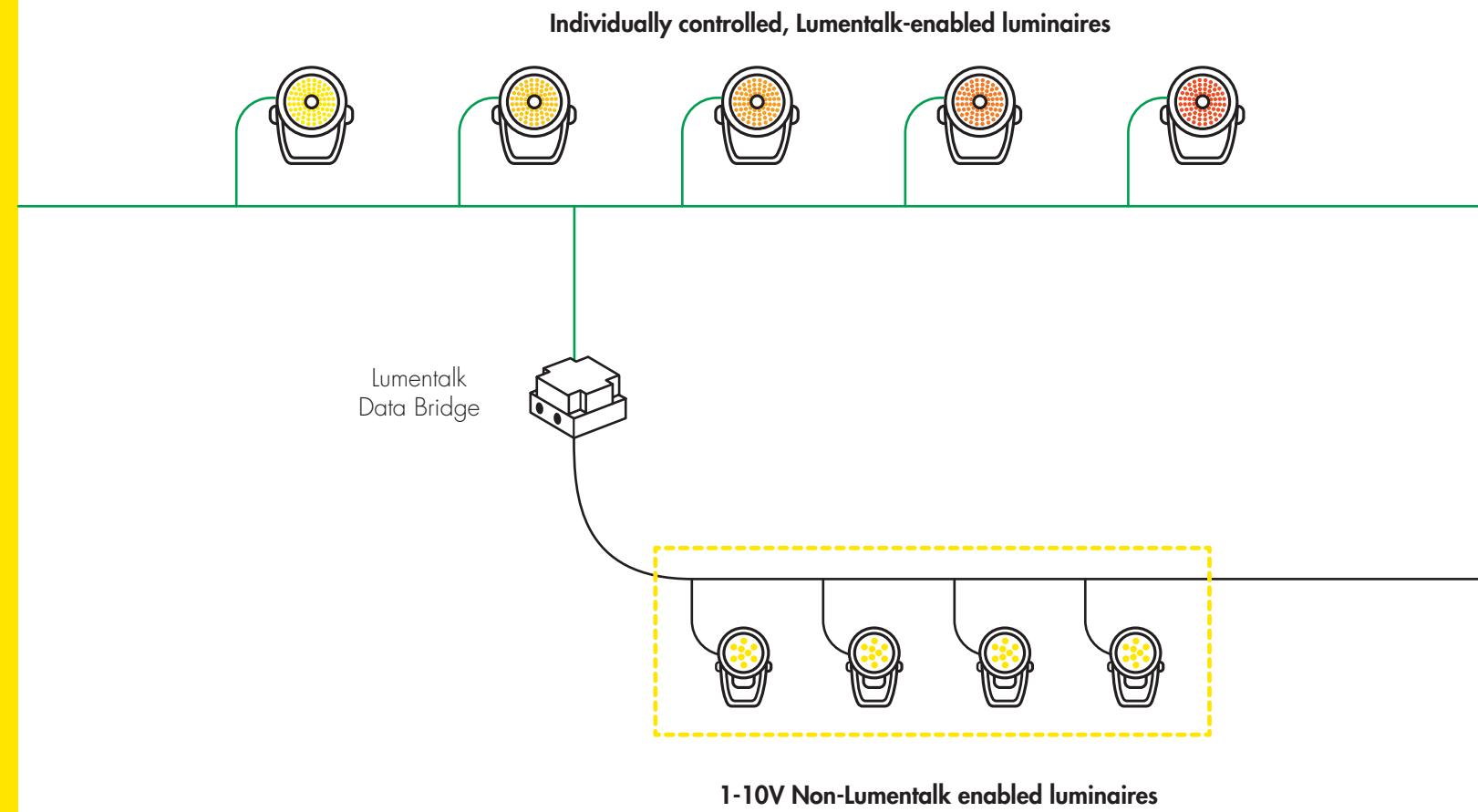


1-10V

— Data
— Data over power line

The Role of the Lumentalk Data Bridge in a Lumentalk System

Create zones of non-Lumentalk luminaires and Lumentalk enabled luminaires.
Control each luminaire individually.

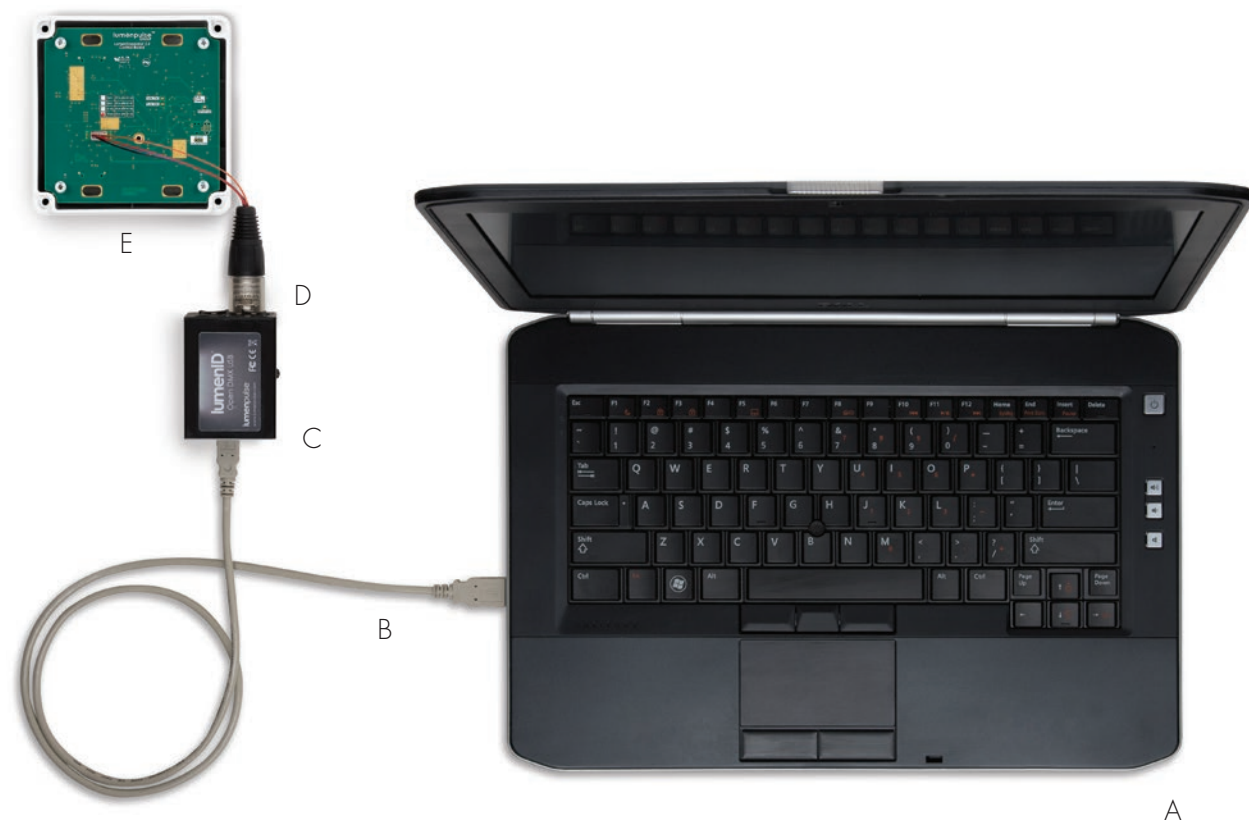


When should I use Lumentalk?

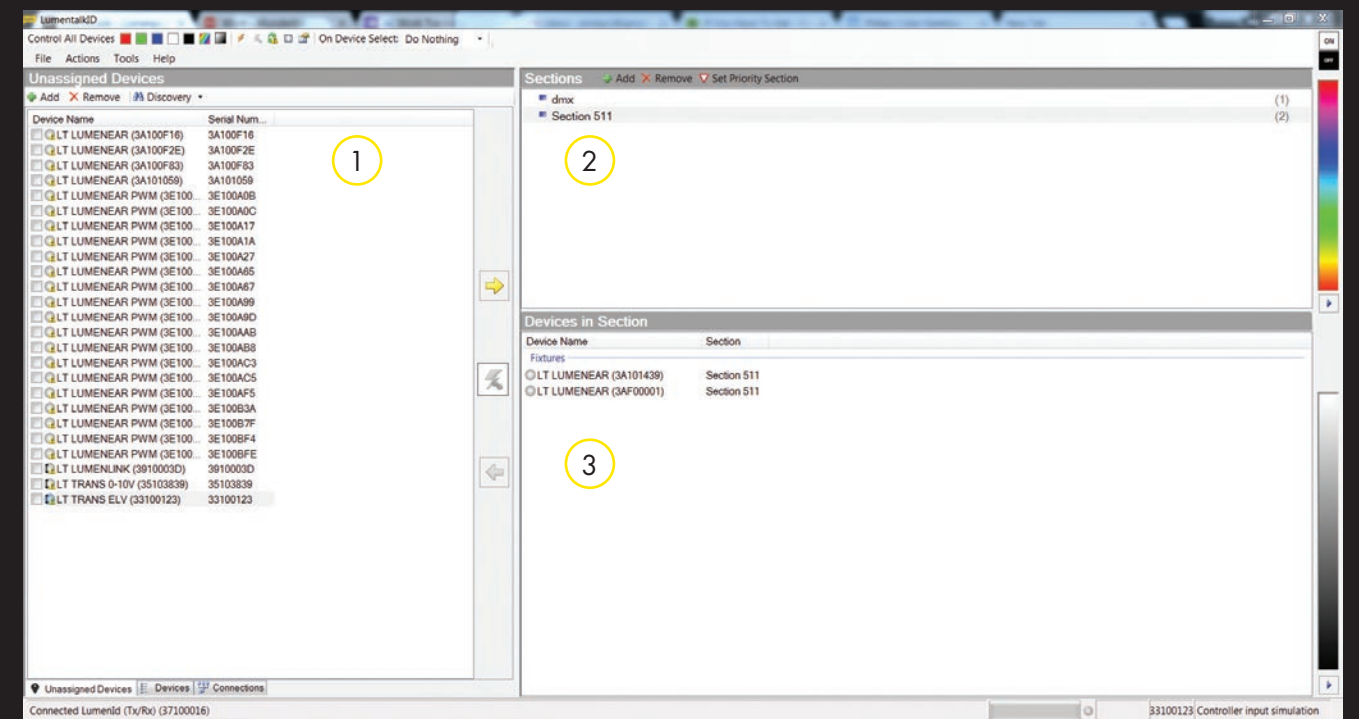
1. When you need total flexibility.
2. When you want to save money on installation.
3. When your architecture prevents you from rewiring.
4. When you need DMX-style flexibility but can't afford the cost or hassle.

How to commission Lumentalk?

It's easy to commission your luminaires to react to your every wish. Just drag and drop your luminaires into sections. Lumentalk will speak to your luminaires and they will answer, giving you full control of multiple zones and designs.



- A. Computer
- B. USB Cable
- C. LumenID
- D. Lumentalk ID Cable
- E. Lumentranslator 2



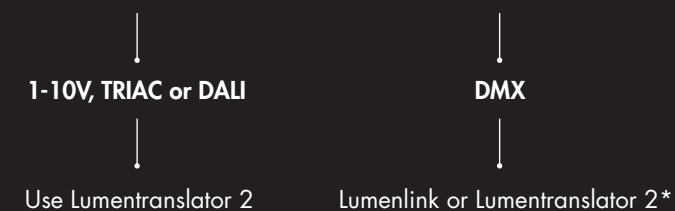
1. All Lumentalk hardware is discoverable over the power line using Lumentalk's bidirectional communication protocol. With your LumenID plugged into a Lumentranslator 2, you can use the Discovery tool to populate a list of all Lumentalk-enabled luminaires and devices on your Lumentalk network.
2. The Sections window is where you organise your project by space and by control groups. By assigning a luminaire and Lumentranslator 2 into the same section, there is an automatic link formed assigning control of that luminaire to the Lumentranslator 2 in the section.
3. Assigning luminaires to sections is how you tell Lumentalk lights which controllers to listen to, and how they will be grouped for final control. Either use the quick-button arrows (located in the central bar) or simply drag and drop your devices into place.

Easy step-by-step ordering

STEP

1

What type of control will you be using?



STEP

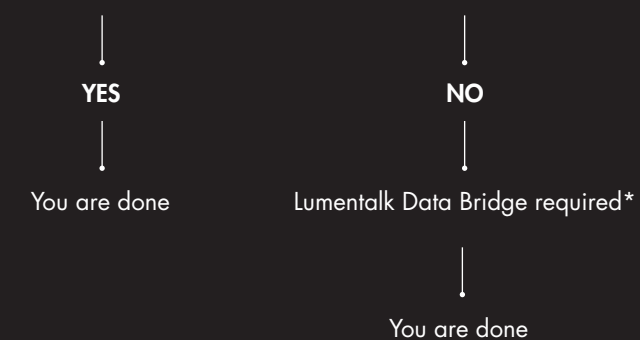
2

Order your Lumenpulse Group luminaires and specify your Lumentalk dimming option.

STEP

3

Do all your desired luminaires have the Lumentalk option?



*Consult factory for details.

FAQ

Q: What is the Lumentalk network?

A: The Lumentalk network is a single electrical circuit, or linked electrical circuits that share the same Lumentalk information. It is similar to an office communication network, where all devices can speak with and listen to all devices on the network. In order to expand your network, simply use a Lumenlink to link more electrical circuits into your network.

Q: What is the cost of using Lumentalk?

A: You will not be paying for data cables, or the installation of data cables. The cost involved is only the Lumentranslators 2 and luminaires.

Q: What are Lumentalk's capabilities in terms of control and distances?

A: On a single Lumentalk network it is possible to control up to 1024 luminaires, grouped in up to 48 different zones. You can connect up to 32 independent controllers on the same network – controlling any luminaire from anywhere on the network.

Q: What are the performance capabilities of Lumentalk-enabled luminaires?

A: Lumentalk allows dimming of luminaires down to 1% intensity with a communication speed 2.5 times faster than DALI.

Q: How do you address and group luminaires into zones once on the Lumentalk network?

A: Lumentalk allows luminaires on the same network to be grouped into individually controllable zones which are assigned to controllers on that network. Through the use of the LumentalkID software, you can discover your luminaires, identify their location, and drag and drop them into your zones. For DMX addressable luminaires, simply assign DMX addresses to your luminaires using the same interface.

Q: Can Lumentalk be used with non-Lumenpulse luminaires?

A: Yes. Lumentalk technology is open to other manufacturers through our Lumentalk licensing program. For a current list of compatible manufacturers, please contact your Lumenpulse representative, or e-mail us at info@lumenpulse.com

Q: How do I determine how many Lumentranslators 2 or Lumenlinks are needed?

A: Each dimmer or controller on your network requires a Lumentranslator 2. You can use a single Lumenlink to branch up to 3 circuits or 3 phases together for coordinated control across your project. Up to 3 Lumenlinks can be used on a single Lumentalk network. Please consult your electrical contractor for more information.

Q: Will Lumentalk work with my existing control system?

A: Yes. Lumentalk is a lighting control network designed to work with the full range of lighting control protocols. Whether your system makes use of a few sensors and dimmers, or is an advanced intelligent control system, Lumentalk can provide the gateway required to bring control to your luminaires.

Q: Will there be any latency problems using Lumentalk?

A: Latency may occur if there are more than 48 addresses being used. There is nearly zero latency with fewer than 48 addresses.

Q: Is Lumentalk compatible with voltages and electrical standards in my region?

A: Yes. Lumentalk has been developed for universal compatibility worldwide. It has a functional range from 100-277VAC 50/60Hz. Lumentalk is fully compliant with FCC and CENELEC communication standards to ensure problem-free integration with your project's existing electrical system.

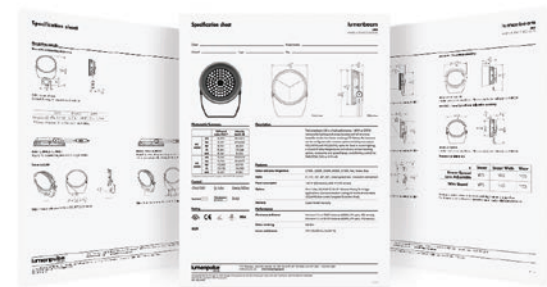
Q: Lumentalk is bidirectional. What information can I collect from Lumentalk luminaires, and how can I access it?

A: Lumentalk luminaires store and communicate information about their configuration, temperature, lifetime and health. Simply connect to the Lumentalk network and query your luminaires to collect this information. For more details on how this works, please contact your Lumenpulse sales representative or contact info@lumenpulse.com

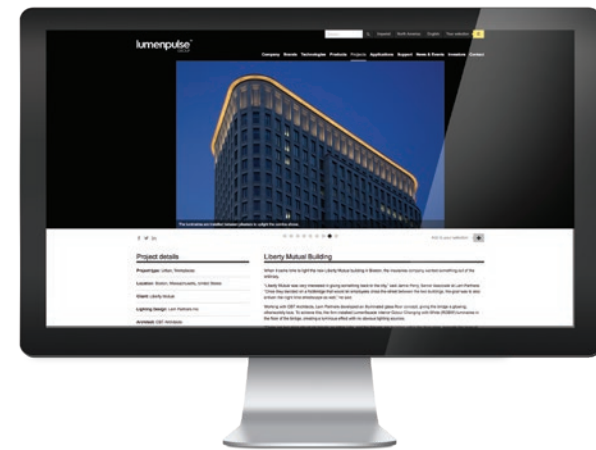
For any other questions, please contact our Technical Support team at: TechSupport@lumenpulse.com.



Building Energy Exchange, New York, NY, USA
Photographer: Brett Beyer



Documentation



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