

Technology+

companionSUITE software collection

Unleashing the driver's features



TRIDONIC

Technology+

companionSUITE software package

Easily parameterise and analyse

Convenient optimisation of processes

The companionSUITE software package by Tridonic supports luminaire manufacturers with the generation, transmission and control of driver settings. It not only contributes to sustainable process optimisation in production, but also supports quality management in analysing and eliminating potential sources of error. Drivers can also be configured on site using the specially designed app – wirelessly and conveniently via a smartphone.



deviceGENERATOR



deviceCONFIGURATOR



4service NFC app



deviceANALYSER

companionSUITE software package

Easily parameterise and analyse



Chat with your driver

Easily parameterise and analyse drivers



Planning engineer

Tell your driver what to do

5. January 09:05 am

Production workers

Instruct your driver
how to act

12. January 08:55 am



Electrician

Tells the driver what it
needs to do differently

14. February 09:15 am

After sales / quality managers

Ask your driver what it did

15. December 11:12 am



Chat with your driver

Easily parameterise and analyse drivers



deviceGENERATOR

Define parameters

This intuitive software enables users to create individual profiles with ease. This ensures that every driver receives the right setting in the next step. As a purely web-based solution, the deviceGENERATOR is extremely easy to use, with no need for installation or software updates.

devicegenerator.com

- All driver functions at a glance
- Easy-to-set parameters
- Intuitive, graphical user interface

Web-based



deviceCONFIGURATOR

Transfer driver settings

Using this programme, production employees can easily and securely transfer defined settings to the driver. Up to 20 drivers can be programmed automatically. To avoid errors as far as possible, the deviceCONFIGURATOR has a function package consisting of a traffic light function and a barcode scan for the reliable identification of the driver. It is also possible to check written parameters via DALI and NFC.

deviceconfigurator.com

- Simple transfer of the driver settings generated in the deviceGENERATOR
- Optimised workflow for OEM production
- NFC multiprogramming for complete packaging units
- Status display for parameterisation
- Test function for parameters and drivers (DALI, NFC)
- Label print function
- Security thanks to barcode scanner, traffic light and protocol function

Interfaces: **NFC, DALI, ready2mains**



4service NFC app

Configure on site

The 4service NFC app makes it easier for installation technicians and maintenance engineers to configure and analyse drivers on site – wirelessly and without mains operation. In addition to simply adjusting parameters, the app also provides an efficient option to identify errors quickly and remedy them immediately.



- Set the LED output current
- Select device operating mode
- DALI address assignment
- Configure corridorFUNCTION and chronoSTEP profiles
- Transfer deviceGENERATOR configurations
- Reading and displaying the error memory of drivers
- Client-specific adjustment of driver settings

Interface: **NFC**



deviceANALYSER

Analyse faulty drivers

With the deviceANALYSER, manufacturers can quickly and easily inspect returned luminaires for faults. As part of this process, all of the driver parameters are read and can be compared with the original configuration. Deviations that occurred at the luminaire's location are listed. It is also possible to generate a detailed report. As a web-based solution, deviceANALYSER is extremely easy to use, with no need for installation or software updates.

deviceanalyser.com

- Function analysis tool for returned luminaires
- Read out data
- Display current function and parameter settings
- Compare current and original settings and mark changes

Interfaces: **NFC, DALI**

Web-based



Simply understand drivers better

Overcome the challenges in production

Lisa, accountant

“In the series production of luminaires, the use of plugs leads to high storage and production costs.”

Mark, production planner

“We produce a wide variety of luminaire types for specific areas of application. There are rarely more than ten units per batch.”

John, planning engineer

“The masterCONFIGURATOR is a helpful tool. However, only an employee with a high level of specialist knowledge could use it.”

Peter, quality manager

“We use a variety of programming options. The danger of human error is therefore very high.”

Kevin, Electrician

„In order to best adapt a street light to its surroundings, it needs to be directly connected to a voltage supply and a PC with software.”

Simply understand drivers better

Overcome the challenges in production

Faster

The combination of companionSUITE and NFC technology enables the programming of entire packaging units with up to 20 drivers in a single step.

More flexible

The deviceGENERATOR makes driver configuration as convenient as it is efficient. Several different profiles can be stored for each device.

Simpler

The companionSUITE paves the way to a completely digitised production environment that is connected to code readers, NFC antennas and label printers.

Safer

By deliberately separating development and production, the danger of human error is considerably reduced. companionSUITE checks the number of programmed drivers and confirms the written data. Since NFC technology requires no power supply, the risk of injury is also minimised.

On-Site

The specially developed app uses state-of-the-art NFC technology in place of a DALI bus line to transfer data to the driver. This allows luminaires to be adjusted quickly and easily to the individual lighting situation, which saves time and money, especially outdoors.

Near Field Communication (NFC)

Save time and money

Efficient production

Contactless and de-energised programming

The new driver generation with integrated NFC interface makes production work considerably easier. Drivers can now be programmed wirelessly and in a de-energised state in a single pass – in packaging units of up to 20 units – as well as individually. Complex wiring or plugs are no longer necessary. Instead, entire packages can be placed on the antenna and parameterised via deviceCONFIGURATOR at the push of a button.



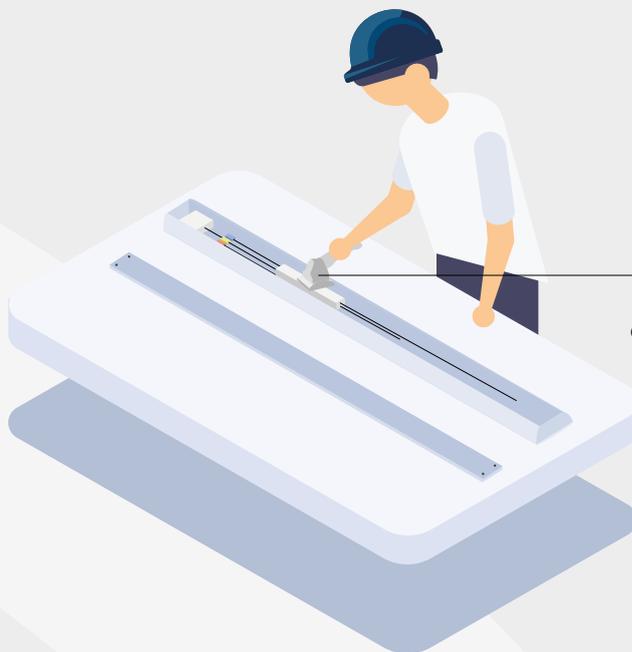
Near Field Communication (NFC)

Save time and money

Quick check

Easy error analysis

In the case of returned luminaires, NFC technology can help to significantly reduce the time required for fault analysis. With a hand-held scanner, the drivers can even be read out when built-in and the data obtained can be evaluated with the deviceANALYSER.



NFC)))

Analysis via
deviceANALYSER



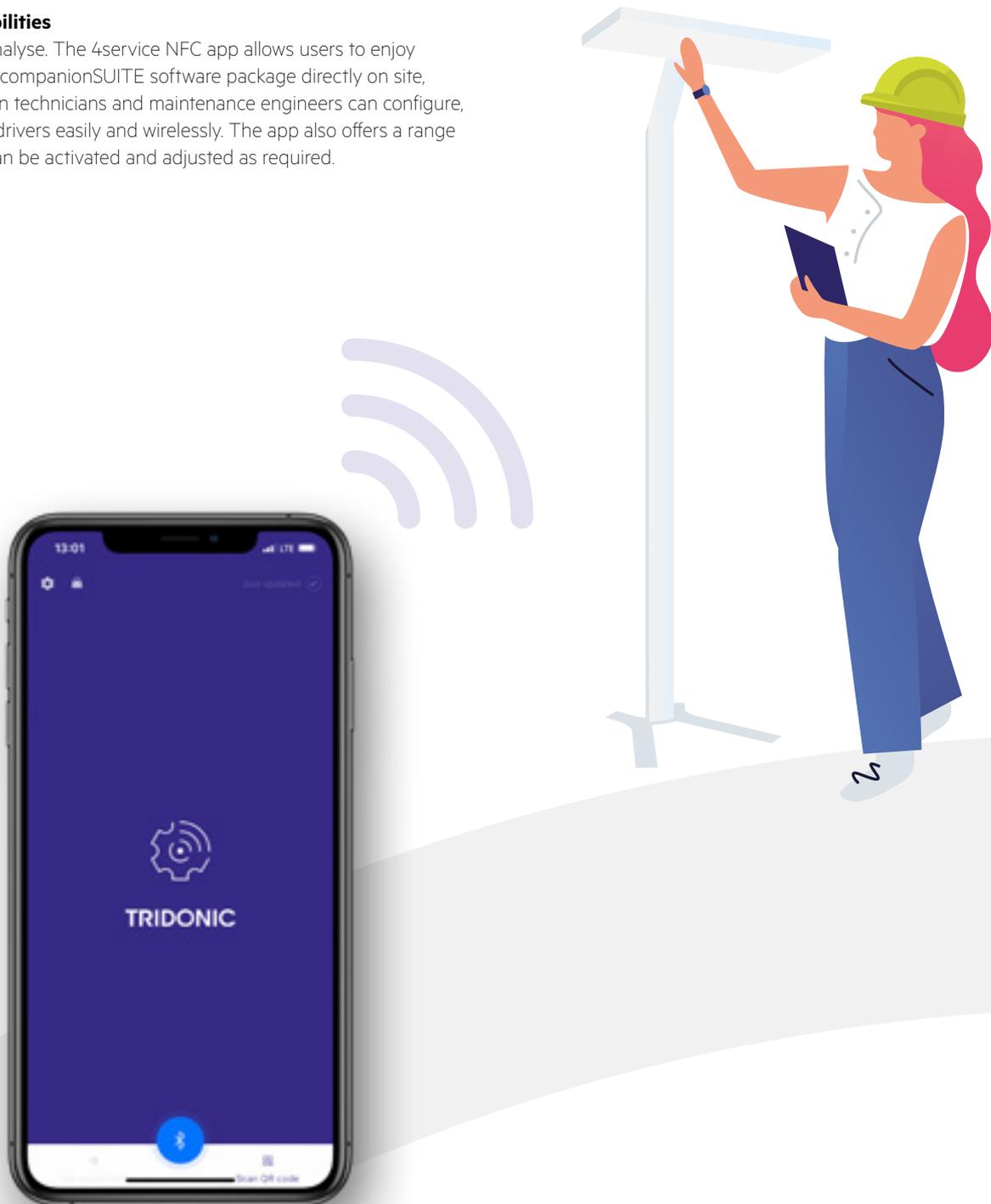
Go to video
companionSUITE

Near Field Communication (NFC) On-Site

4service NFC app

Even more possibilities

Define. Transfer. Analyse. The 4service NFC app allows users to enjoy the benefits of the companionSUITE software package directly on site, meaning installation technicians and maintenance engineers can configure, adjust and export drivers easily and wirelessly. The app also offers a range of functions that can be activated and adjusted as required.



Near Field Communication (NFC) On-Site

4service NFC app

At a glance:

4service NFC app

Define:

- LED output current in order to adjust brightness
- Define and adjust functions (DALI, corridorFUNCTION, chronoSTEP)
- DALI address assignment

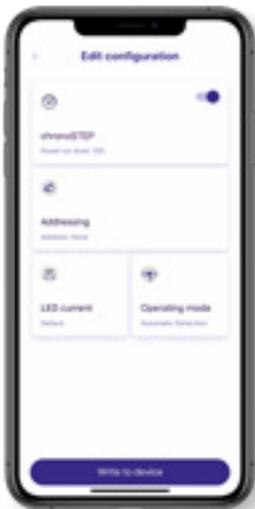
Transfer:

- Transfer driver settings using copy-and-paste
- Transfer deviceGENERATOR configurations

Analyse:

- Reading and displaying the error memory of drivers
- Initial on-site root cause analysis

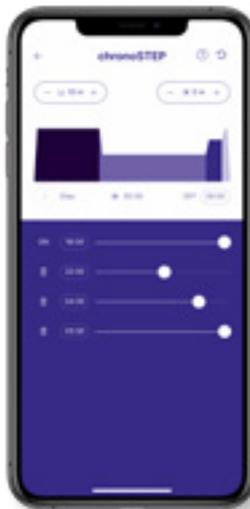
Example functions of 4service NFC app



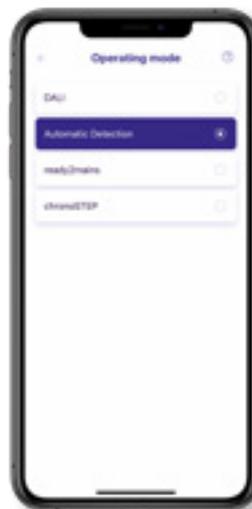
Change or adjust parameters



Product info via integrated QR code reader



chronoSTEP



Operating Mode



LED current

Select suitable functions

Set parameters

Smart data



OEM Identifikation (DALI Part 251)

The Original Equipment Manufacturer (OEM) has the option of setting its own identification number.



OEM GTIN (DALI Part 251)

The original equipment manufacturer (OEM) has the option to set its own global trade item number (GTIN).



Luminaire data (DALI Part 251)

This function provides exact data on the luminaire for the purpose of system management.

Operating modes



Device operating mode

The driver's different control signals are detected automatically and the operating mode changed accordingly.



corridorFUNCTION

The combination of corridorFUNCTION and motion sensor enables an area's lighting to easily be adapted to its use.



chronoSTEP

The outdoor and street lighting is automatically dimmed during night-time hours, thus saving energy.



inputDIM

Depending on the level of the input voltage, the intensity of the LED can be adjusted via two adjustable supports.



Reset settings

All parameters are returned to factory settings.

Output



LED output current

With this function the output current of the LED driver can be set in steps of 1 mA.



Enhanced constant light output (eCLO)

In order to compensate for the natural decline in light output, the output current of the LED driver is constantly increased throughout its life time.



Integrated DALI power supply

By activating the DALI power supply, a small local DALI network can be set up via the DALI terminals.



Channel grouping

This function allows the output channels to be laid out individually. The physical LED outputs are assigned to logical units (DALI addresses). The setting options vary depending on the control gear.

Safety



Test window

The test window determines the maximum time that may elapse between the scheduled start and the actual execution of the test.



Auto test

The interval and start delay for the function and endurance test can be set precisely.



Prolong time

It is possible to define how long the emergency operation remains active after the mains power has been restored. If the total operating time is exceeded, the module exits the Prolong mode.



DC level

Based on the input voltage, the function detects emergency operation via the central battery. The LED driver automatically switches to DC mode and dims the light to the defined level.

Select suitable functions

Set parameters

Protection



External temperature management (ETM + NTC)

The LED is protected against thermal damage. In addition, the accuracy of the temperature curve is optimised.



Intelligent temperature guard (ITG)

If a defined temperature is exceeded, the output power is slowly reduced to protect against thermal overload.



Minimum level

The selected value is set as the minimum value for the control gear. This value is set for 1 V input voltage and can not fall below this limit during dimming.



colourSWITCH

Up to 10 pre-defined colour temperatures can be called up one after the other or set as desired via a button.



proportionSWITCH

Up to 10 pre-defined intensity values can be called up one after the other or set as continuously via a button. With multi-channel devices, both channels dim/brighten in the opposite direction.

Application



Enhanced POWER ON LEVEL (ePOL)

The parameter defines the power level that is automatically set when the power supply is restored, e.g. after a power failure.



DALI default parameters

Standard parameters ensure that all luminaires in each operating mode, such as switching, dimming or scene call-up, react in the same way.



Scenes and groups

Each device can be integrated into up to 16 groups and assigned to 16 different scene values.



Power up fading

This function, in conjunction with the forward voltage or switchDIM, enables a smooth switch-on. The set time indicates how long it takes to brighten from 0% to the switch-on value.



fade2zero

This can be used to set whether or not the control gear uses a fade time when switching off from the minimum value.



Colour temperature range

Here you can define the usable colour temperature range. The colour temperature is limited by the physical upper and lower limits of the connected LED module.



Dimming curve

The desired dimming behaviour can be selected via 4 different dimming curves. The default setting of the dimming behaviour is device-specific.



deviceKEY

This function can be used to protect individual device functions against unwanted changes using a password.



sensorMODE

The sensorMODE combines the features chronoSTEP and corridorFUNCTION and adds the possibility to control them with a DALI input device directly connected to the LED driver.

Select suitable functions

Set parameters

Lighting control



General settings

This function enables general configuration, of the status LED or the maximum and minimum levels, for example.



Continuous light control

All parameters relevant to continuous light control, such as presence and absence values or bright-out, can be set and adapted to the respective application.



General push button settings

Fade-in and fade-out times can be adapted as required. Settings defined using this function apply for all the push buttons of an application.

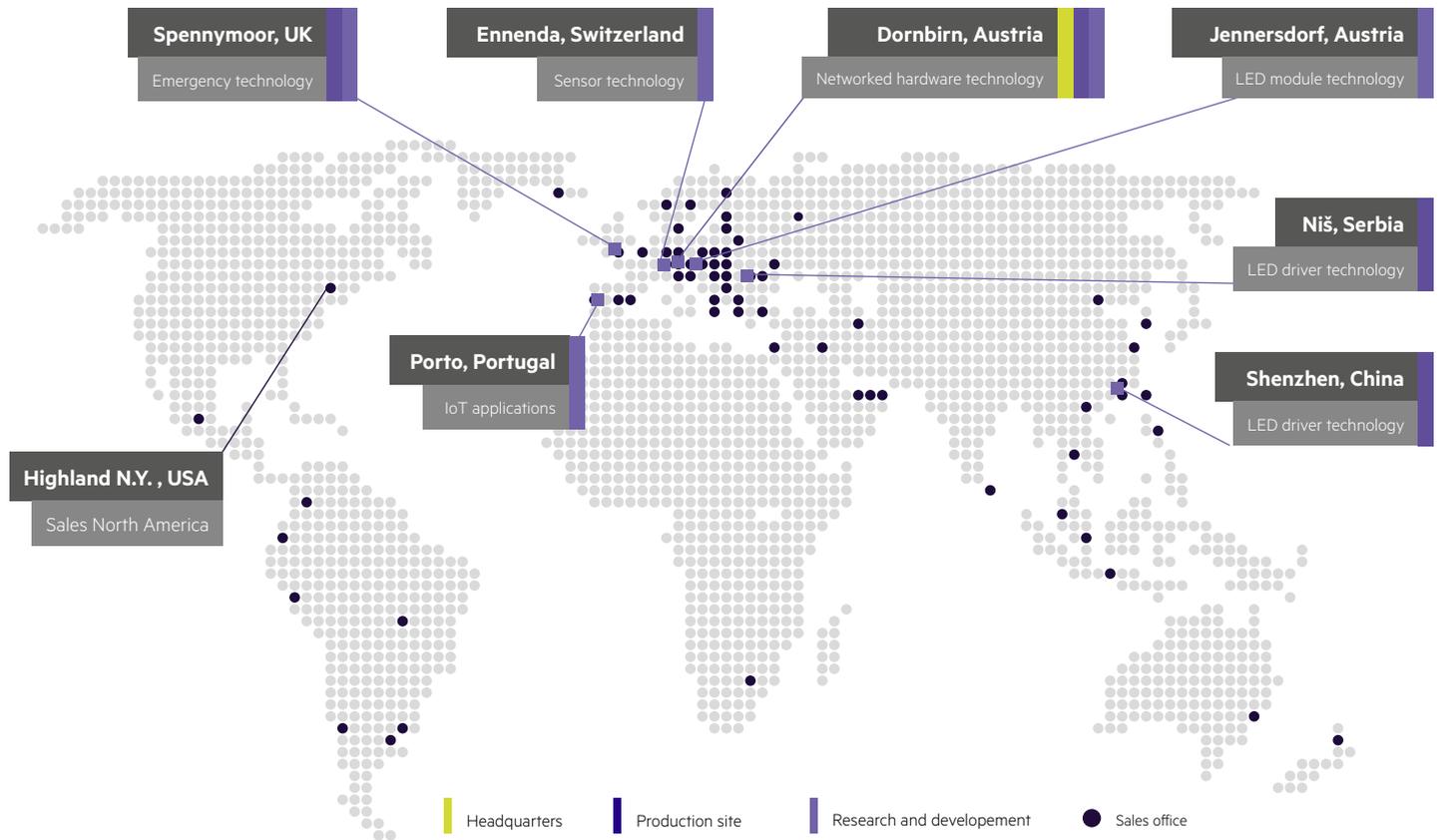


Push button configuration

The functionality of all four push buttons can be defined as desired – according to length and number of times pressed, for example.

Prepared for the future

Our activities and locations



1,932

Around 1,900 employees throughout the world are committed to helping you with their know-how and creativity to create the perfect light.

6

There are six research and development centres in which new LEDs and networked lighting technologies are being developed.

3

There are three things you can rely on at Tridonic: optimum product quality, decades of expertise and our committed and flexible support.

1

In our unique software competence center in Porto (Portugal), information technology experts are developing new solutions for smart buildings and smart cities. They are working on a range of products from intelligent lighting management and control systems to highly advanced IoT solutions and their matching digital services.

21

With 21 branch offices on five continents we are there for you wherever you are in the world.

2,600

That's how many patents and inventions testify to Tridonic's extraordinary powers of innovation.

Details

For further information, data sheets, product catalogues and ordering details, please go to www.tridonic.com.

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Light you want to follow.

