

## groupCONTROL Programmer

groupCONTROL Programmer

### Product description

- Programmer for on-site commissioning
- Control via smartphone / tablet / laptop with a responsive WEB app
- Local autonomous group management via RF mesh
- Groups of luminaires, small scale installations up to 60 nodes
- Standard-based solution (ZD4i) that can be seamlessly upgraded to an IoT-scale smart city solution
- Power supply included and additional 12 V car charger allowing high flexibility on site (commissioning & maintenance on-site)
- Battery powered
- Lifetime up to 50,000 hours
- 2 years guarantee (conditions at [www.tridonic.com](http://www.tridonic.com))

### Housing properties

- Casing: Pantone Black 6 RAL 9004
- Type of protection IP40

### Benefits

- **Innovative:** Integrate sensors, schedules, scenes to tailor outdoor lighting that fits the application's needs
- **User friendly:** Intuitive user interface with map support and live test function
- **Reliable:** Creates a network that is built on self-healing mesh technology for stable and durable operation
- **Safe:** Proven Tridonic hardware components to endure the harsh outdoor conditions

### Typical applications

- Smart, connected outdoor lighting solution based on D4i for installations of up to 60 nodes with up to 8 light points per node



Standards, page 4

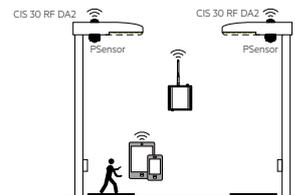
Wiring diagrams and installation examples, page 5



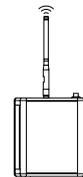
groupCONTROL configTOOL Programmer



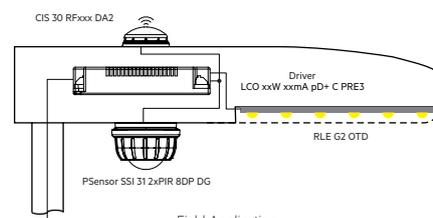
groupCONTROL configTOOL Programmer with power supply and 12 V car charger (included)



Smart City Plattform



groupCONTROL configTOOL Programmer



Field Application

### System overview

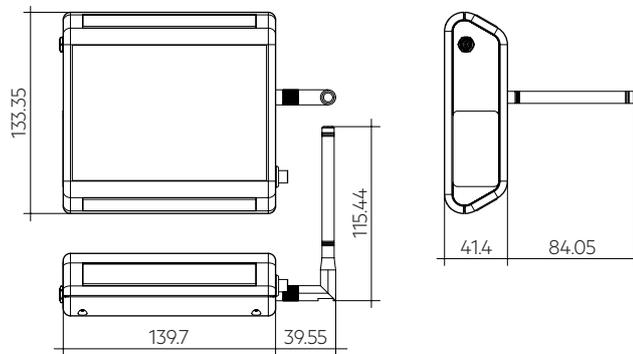


## groupCONTROL Programmer

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### Technical data

Supply voltage DC	12 V
Max. power consumption	5 W
Starting time	30 s
Radio protocol	802.15.4g, 6LoWPAN
Data rate	100 kbit/s
Radio receiver sensitivity	-99 dBm
Data encryption	AES 128 bit
Max. radio range	100 m
Ambient temperature $t_a$	-20 ... +50 °C
Permitted relative humidity	0 – 90 %
Storage temperature	-40 ... +85 °C
Dimensions L x W x H	140 x 134 x 42 mm
Housing material	ABS
Housing colour	Pantone Black 6 / RAL 9004
UV resistance	f1
Type of protection	IP40
Lifetime	up to 50,000 h
Guarantee (conditions at <a href="http://www.tridonic.com">www.tridonic.com</a> )	2 years



### Ordering data

Type	Article number	Radio transceiver operation frequency	Packaging carton	Weight per pc.
groupCONTROL CT WIFI RF868	28004025	868 MHz	1 pc(s).	0.400 kg

## 1. Standards

ETSI EN 300 328  
ETSI EN 300 220-2  
ETSI EN 301 489-1  
ETSI EN 301 489-3  
ETSI EN 301 489-17  
IEC 62368-1  
EN 62311

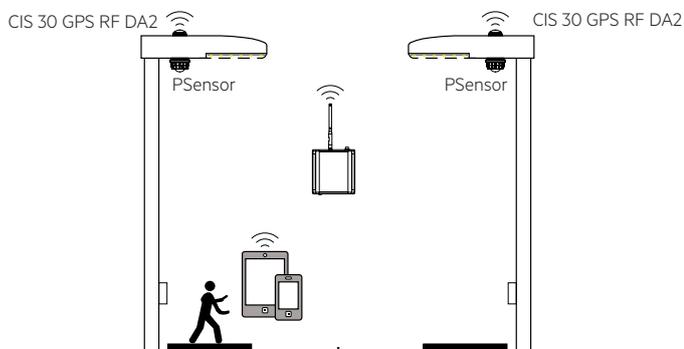
## 2. Common

Supports the process of installing Tridonic SIDEREA groupCONTROL devices and commissioning the corresponding lighting infrastructure. Use this portable, battery-powered device to setup and configure the communication between a smart mobile device (e. g. mobile phone, tablet or laptop) and the groupCONTROL configTOOL 6LoWPAN network with up to 60 nodes that need to be provisioned and managed.

## 3. Operation

OTD system overview:

The groupCONTROL configTOOL creates the connection between the mobile device Wi-Fi signal and the 6LoWPAN signal of the SIDEREA network. The user can connect his smart device with the Wi-Fi signal broadcasted by the groupCONTROL configTOOL Programmer. Via the IP address of the groupCONTROL configTOOL Programmer the user can access the programming interface and put the SIDEREA network into operation.



### 3.1 Additional information

Additional information about the commissioning, installation processes and maintenance of the groupCONTROL configTOOL 6LoWPAN network are documented in the according manual, see [www.tridonic.com](http://www.tridonic.com).

## 4. Additional technical data

### 4.1 Power supply

Appliance class	Class II (only in charge mode)
Burst protection	EN61000-4-4 Level 2 Criteria B
Frequency	50 / 60 Hz
Power supply AC	230 V
Power consumption	5 W
Output voltage	12 V
Surge protection	EN61000-4-5 Level 2 Criteria A

### 4.2 Battery

Battery life	up to 8 h
Nominal voltage	3,65 V
Min. voltage	2,4 V
Max. voltage	4,2 V
Capacitance	5,300 mAh
Overcurrent protection	9 A

## 5. Miscellaneous

### 5.1 Disposal of equipment



Return old devices in accordance with the WEEE directive to suitable recycling facilities.

### 5.2 Additional information

Additional technical information at [www.tridonic.com](http://www.tridonic.com) → Technical Data

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.