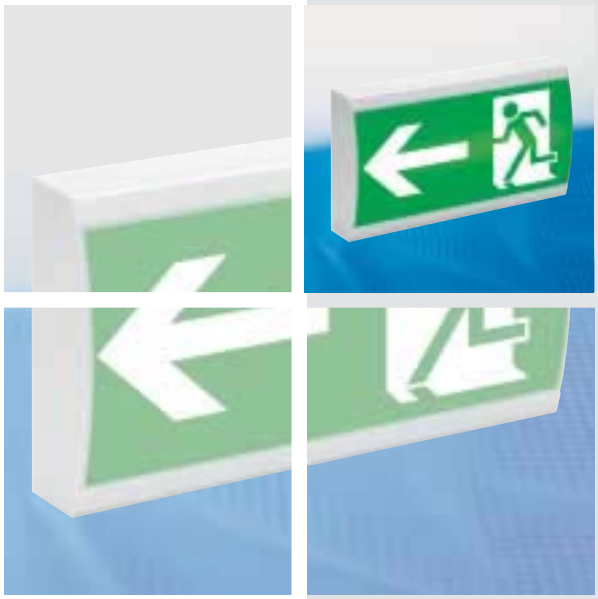
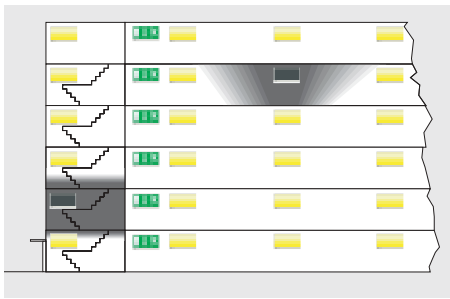
Self-Contained Luminaire System CGLine





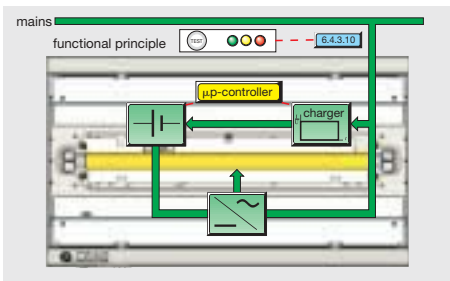
Every emergency luminaire is important.

It protects life and health.

Only a fully working emergency lighting system can perform its protective function when the general lighting fails.

Even if only one safety luminaire or exit luminaire fails, there is a considerable risk of accidents depending on the situation in the room, e.g. on staircases without natural light.

For this reason, the legislator requires continuous inspection of the emergency lighting systems.



Inspection, maintenance and repair

Only a regular inspection of the emergency lighting systems ensures that their functioning is guaranteed at all times.
For the operator this functional test is often very elaborate and associated with high costs.
CEAG therefore offers the automatic function test for all new **CGLine self-contained luminaires.**

All functions of the luminaire are automatically monitored and controlled via a microprocessor. The prescribed inspections, such as the function test, which checks the emergency lighting function of the luminaires or the duration test, which checks the battery capacity, are fully automatic. The test results can be read from three light-emitting diodes on the lamp.

Coding of the fault display:

Status	LED Green	LED Yellow	LED Red
No fault	●	❍	❍
Emergency mode	❍	❍	❍
Delay-time on mains return	✱	✲	(blinks green/ yellow alternately)
Luminaire in the function test	✱	❍	❍
Luminaire in the duration test	✲	❍	❍
Charging fault	❍	●	✲
Fault in function test	❍	●	✱
Fault in duration test	●	●	❍
Fault with luminescent material	❍	✲	✱
Block mode	●	✲	❍

❍ = LED does not light up; ● = LED lights up; ✱ = LED blinks; ✲ = LED flashes
[1)] Only in mains operation

Function- and duration test:

Test button pressed for	Function	LED Green	LED Yellow	LED Red
1 sec. < t < 5 sec.	Function test ON	✱	❍	❍
t > 5 sec.	Duration test ON/OFF	✲	❍	❍
	Duration test delayed	●	❍	● (1s)
t > 10 sec.	Reset of the luminaire	● (1s)	● (1s)	● (1s)

● = LED lights up 1s; ❍ = LED does not light up; ✱ = LED blinks; ✲ = LED flashes

CG Controller CGLine 400

Central monitoring incl. log book

In order to keep tabs on projects with a large number of self-contained luminiares we recommend the use of a central monitoring system.

In the CGLine system the luminaires no longer need to be addressed. Thanks to individual identification numbers per luminaire and the auto addressing system of the controller, time and money can be saved in installation.

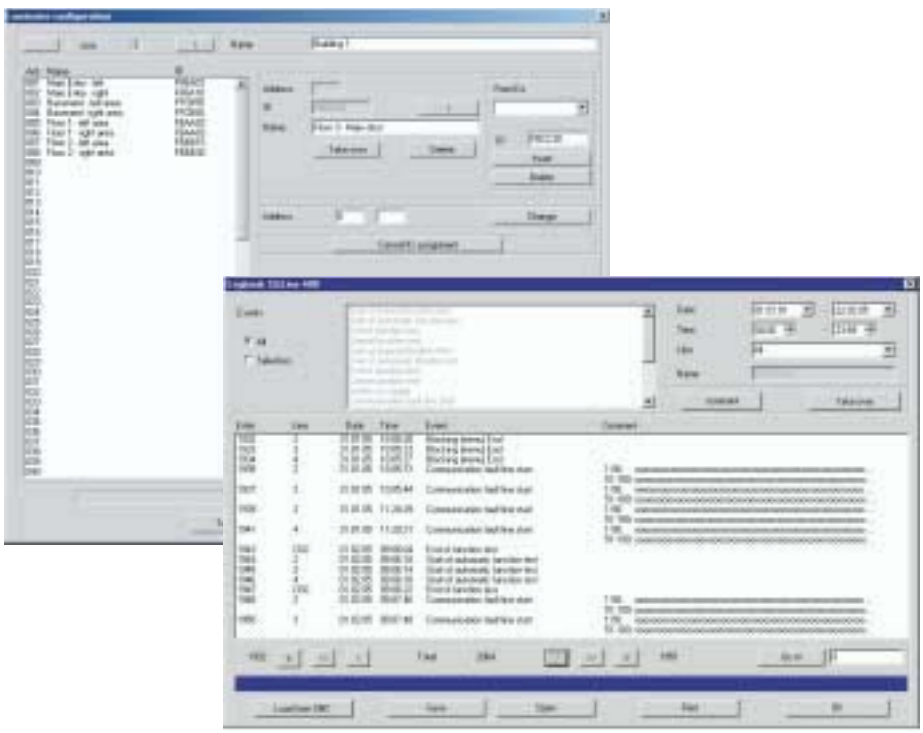
Without any additional effort, up to 400 self-contained luminaires with CGLine-function can be connected to the **CG Controller CGLine 400** using a 2-core data line and can thus be monitored at a central point.

The test results are displayed in the display of the controller in plain text with details of luminaire ID, abbreviated address, individual luminaire name and type of fault and stored in the log book for a prescribed period of 2 years.

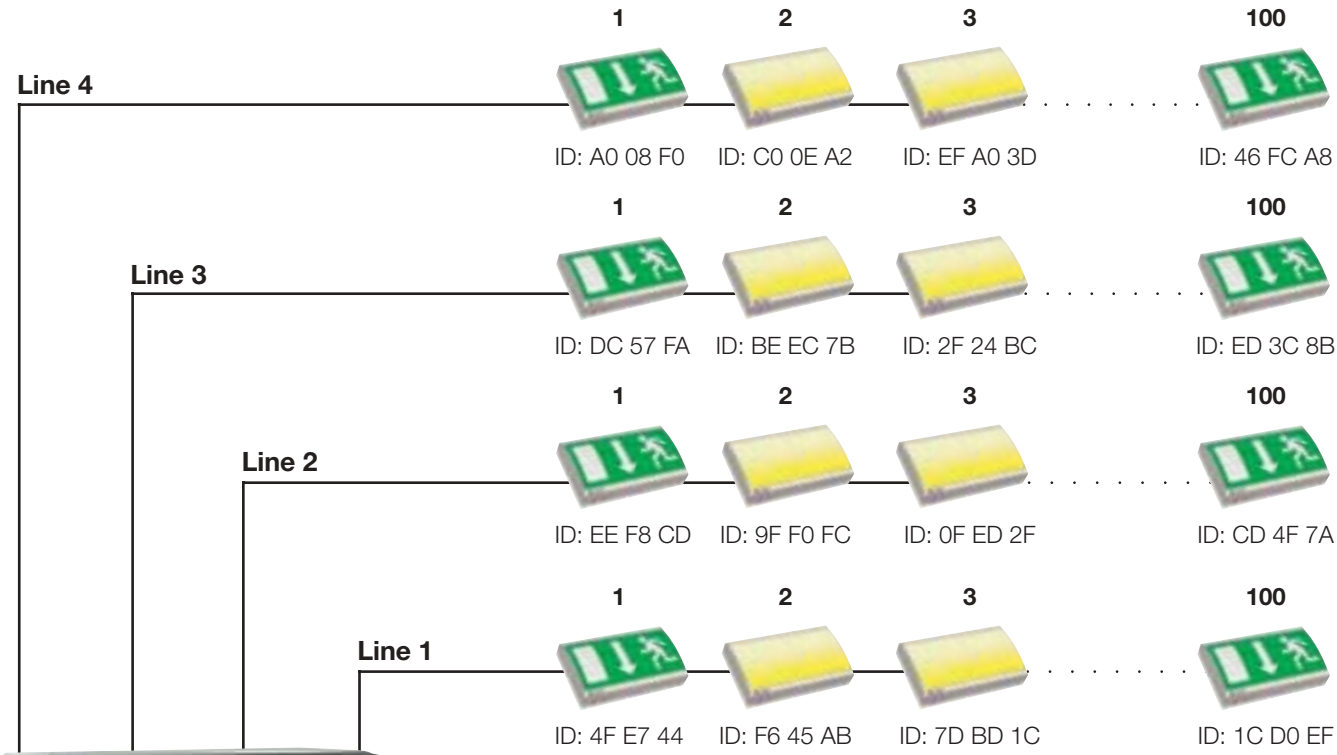
For the operator this means a permanently monitored emergency lighting system, which reduces the servicing costs to a minimum thanks to its automatic self-monitoring.

Convenient configuration and log book evaluation on the PC

Configuration and log book evaluation can be conveniently processed on a PC with the assoicated software using the portable memory medium (Smart Media Card) integrated in the CGLine 400 Controller. For each luminaire it is possible to assign an individual name (20 characters per luminaire), e.g. for the more precise description of the installation site, and to issue an abbreviated address. Log book entries can be sorted according to date, time and type of fault in any way and printed out.



Central Monitoring System for self-contained luminaires CGLine 400



CG Controller CGLine 400

Portable log book
and configuration memory
on Secure-Digital Card

The advantages at a glance

Installation

- No manual addressing (distinct ID per luminaire)
- Automatic luminaire recognition
- Individual name per luminaire
- Free abbreviated address assignment
- Portable configuration memory

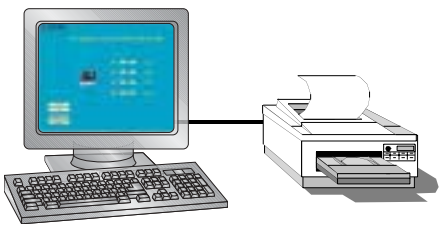
Operation

- Automatic function & duration test
- System status at a glance thanks to LEDs
- Test results in plain text
- Electronic log book over 2 years
- Convenient log book evaluation on the PC
- Automatic function and duration test of the luminaires even without bus connection (independent operation)

Central Monitoring System
CG-Controller CGLine 400

CG-Controller CGLine 400

portable configuration and log book memory on Secure-Digital Card



PC with CEAG-software for programming and evaluation of the SD

CG-Controller CGLine 400

For the central monitoring of CGLine self-contained luminaires, the noval CEAG CG-Controller CGLine 400 offers a variety of new features:

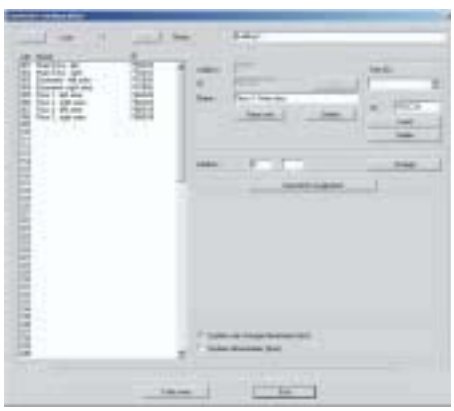
- ❒ Controlling and monitoring of up to 400 CGLine self-contained luminaires
- ❒ Automatic luminaire-search-function
- ❒ Automatic function and duration tests
- ❒ Test results in plain text with details of luminaire ID, abbreviated address, individual luminaire name and type of fault
- ❒ Log book in accordance to VDE 0108/10.89: Storage of test results for a period of 2 years
- ❒ Status display per luminaire
- ❒ Potential-free-contact freely programmable for:
  - battery operation
  - function test
  - duration test
  - communication fault
  - luminaire fault
  - charging fault
- ❒ Password protection
- ❒ Free assignment of an abbreviated address and individual name (20 characters per luminaire)
- ❒ Memory card for storage of luminaire name and log book
- ❒ Configuration and log book evaluation on PC with SD-Card and corresponding CEAG PC-software possible

Technical data

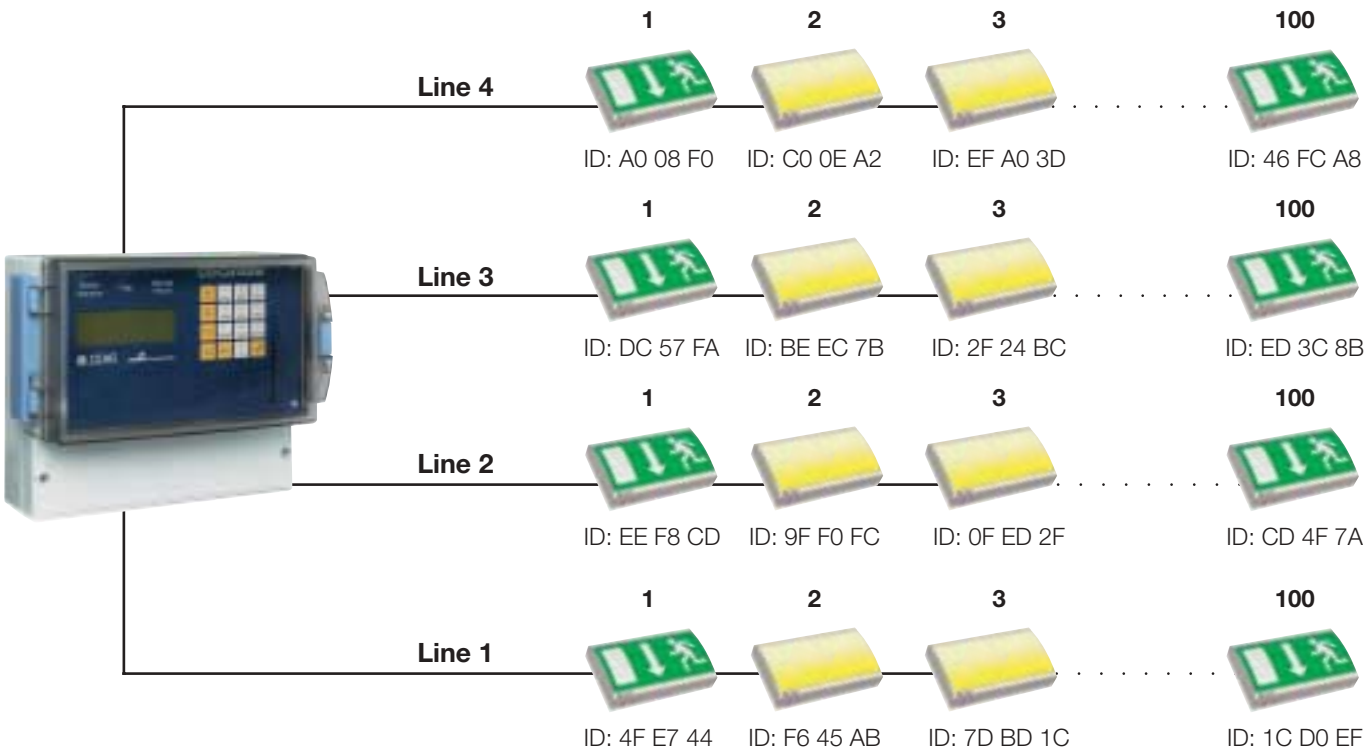
Dimensions (mm) (L x H x D)	184 x 240 x 112
Enclosure	Plastic RAL 7035, with clear cover
Degree of protection (IEC 529)	IP 65
Supply voltage	230 V 50 Hz / 24 V DC
Insulation class	II
Ambient temperature	-5 °C to + 40 °C
Connection terminals	2,5 mm²
Display	Illuminated display, alphanumeric 4 x 20 characters
Keyboard	Foil-keypad 4 x 4
Potential-free-contact	1 x UM, 24 V 0.5 A; freely programmable
LED display for	Operation / Test / Failure

Ordering details

Type	Scope of supply	Order No.
CG-Controller CGLine 400	**Controller in enclosure incl. CG-S BUS-interface and SD**	**4 0071 347 901**
SD-Card (spare card)	**SD-Card formatted for CG-Controller CGLine 400**	**4 0071 347 872**
SD-Card Reader	**SD-Card Reader for USB port**	**4 0064 070 561**
Software	**PC-Software for CGLine 400, for alternative configuration and log book evaluation on the PC**	**4 0071 347 535**



Central monitoring system
CG-Controller CGLine 400
Bus technology



Cable laying CGLine Bus

2-core bus cable, unscreened
Free bus topology

Cable lenght per line

Cross section	Lenght	sum of 4 lines
0.5 mm²	450 m	1800 m
1.0 mm²	900 m	3600 m
1.5 mm²	1350 m	5400 m

Data per line

Supply voltage bus	22.5 V DC
Max. allowed voltage drop	13 V
Bus current	400 mA