SU NET

MADE IN AUSTRIA

SU NET

Decentralised group battery system 24 V LPS

Since 2010, the **Supply Unit Series** has forged a **new, innovative path** in the area of emergency lighting. With compact supply units, the associated **set-up costs** have been able to be **reduced by an average of 33 %**, and **energy consumption reduced by approx. 64 %**.

The 2nd SU generation is now setting standards again: **Installation** and **maintenance** have been **made even easier**. Thanks to expanded **NET functionality** and the **completely reworked SU CONTROL**, the first **smart emergency lighting system** was created. The **FSU technology** and new **ESF30 solutions** will enable future implementation of **innovative and cost-efficient emergency lighting concepts**.

mySU

Thanks to the **mySU APP**, you have an overview of your emergency lighting systems at a glance, distributed at one or multiple building locations, on a user-friendly application interface, at any time and place.

SU NET

The **NET functionality** ensures that all systems in the SU systems group can be controlled, operated, and serviced centrally.

Software solutions – **download now**!

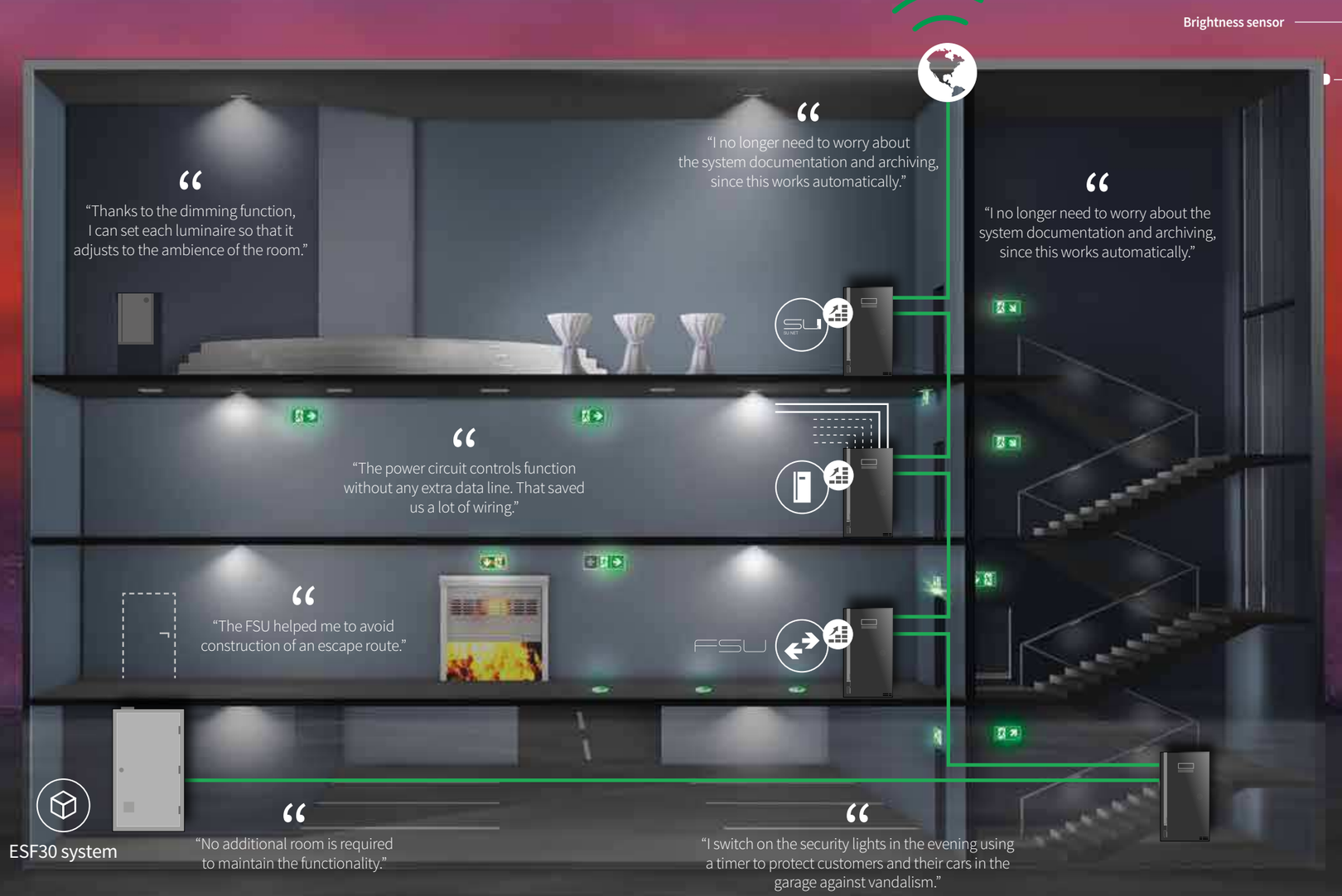
The SU basic idea

The **compact SU systems**, in addition to all of the benefits of a central battery system, **enable luminaires to supplied and monitored in fire compartments**. This helps do without **expensive construction activities**, e.g. proprietary electrical distribution rooms, and **expensive E30 wiring is also unnecessary**. In addition, the fire hazard is reduced and **the general level of safety** increases.

All connected luminaires are monitored and regularly checked according to the legal requirements. The system therefore satisfies the legal obligations of the operator.

Furthermore, adaptive emergency lighting functions can be used to **individually activate and control** all connected luminaires individually, without additional investment. This helps to implement night lighting activation and **low-cost lighting, whereby individual lamps can be dimmed** as needed.

The SU system is equipped with a **fully automatic luminaire searching and programming function**. Time and error-intensive lamp encoding therefore become completely unnecessary.



FSU – Escape Route Scenario Switching

Escape routes may change, emergency exits may become temporarily **impassable due to changes in building use**. The SU FSU system in combination with the **extensive din FSU luminaire portfolio** represent a possible solution for these requirements. Together with fire protection specialists, fully new building concepts can be realised to save building costs. The FSU technology is also available as a system upgrade.

ESF30 system
Increased safety in case of fire

The emergency lighting system must be **more resilient** than other equipment in the building in case of fire. The specially developed **ESF30 solutions** offer a **low-cost** and **spacesaving alternative** to the room that might otherwise be required with technical fire protection measures.

Upgrade

Changes to the building use, conversions or additions sometimes require adaptation of the emergency lighting system. SU NET provides the option to upgrade both the SU system as well as SU CONTROL at any time, therefore adjusting it to your needs.

50,000 h / 5.7 years full warranty

A full guarantee means a worry-free care package of 50,000 h / 5.7 years for you. Possible complaints are taken care of quickly and smoothly. A din maintenance agreement is required for this.

SU NET

Implement. Network. Expand.

SU NET enables **safety-relevant information** like fire alarms or power mains failures to be forwarded via the **din emergency lighting network to multiple systems without additional wiring**.

SU NET – discover online!

SU CONTROL enables access via HTTP.

More information at:
software.din-notlicht.com

SU CONTROL

Program. Control. Visualise.

SU CONTROL supports you with **programming** and **configuration** of your system using **different software functions**. All settings that are normally made directly on the system or in the web interface can be easily adjusted in the SU CONTROL.

Using the implemented offline configuration, it is possible to program without being present at the system. The configuration only needs to be implemented upon commissioning.

SU NET

With the **SU NET function**, **assignment** of signalling contacts is possible between systems.

Potential-free contacts, e.g.: Night lighting activation, event switch, or dimmer switches are connected to the closest SU NET system. The NET function transmits **information about the activation status to the required systems**, which is able to be **assigned to the luminaire level**.

Fire alarm

In case of fire alarm, the safety lighting must be activated. The **potential-free contact** of the fire alarm system is wired to the closest SU NET system.

In case of fire, the technical safetyrelevant information is transmitted via NET function to all systems within the group.

Safety-relevant status messages

In case of buildings with different usage types, there is often the need to display safety-relevant **status messages at different locations**. Using the NET function, multiple remote displays (FA) are able to show the status message from different systems.

Mains failure

In case of a mains failure of the general lighting, it is necessary to activate the safety lighting. Using the NET function, both **local activation of the safety lighting** and a precisely **defined escape route** is possible across multiple systems without additional wiring.

New functions. More possibilities.

SU NET upgrades: Adapt your emergency lighting system to your needs.

SU NET / SU NET FSU
max. 6 circuits

Network wiring
cable type category 5e

Fire compartments

50,000 h
Full warranty

For the entire SU system, a full warranty of 50,000 h / 5.7 years is ensured

SU FSU

Escape Route Scenario Switching

Buildings are getting more and more complex. Often, construction is not possible according to fire protection standards or only after considerable extra cost. Due to the complexity, an increased **potential for danger** results if **people unfamiliar with the location or with limited mobility** are present in the building (e.g. care homes). Through use of FSU technologies, **technical** and **construction-related fire protection measures** can be compensated and the **safety level** increased.

FSU programms variants:

- Emergency sign luminaires with switchable arrow direction and blocking function
- Luminaires with adaptive flash function
- Luminaires for guidance systems near the floor
- Temporarily visible or hidden emergency signs
- Audio speaker for acoustic escape route guidance

All **FSU lights** and the **FSU audio speaker** can be **operated and controlled with standard emergency luminaires in the same circuit.**

E30 system

Certified ESF30 emergency lighting systems with functional integrity

These specially developed and certified ESF30 solutions guarantee functionality over a period of at least 30 minutes in case of fire. With the SU ESF30 system in functional integrity, the safety power source is also tested for VRLA / AGM and LiFePO4 technology.

The ESF30 system is fire-resistant all-around and available in three mounting variations, whereby the system is able to be placed anywhere in the room. Thanks to the practical collapsibility of the system, it can be mounted by a single person. Besides the expected 50,000 hours din full guarantee, you also profit from the 10-year replacement part warranty.

SU ESF30

Technical fire protection placement

SU systems involve **central power supply systems with power limiting (LPS systems) according to OVE E 8101 and OVE Directive R 12-2.**

In case of LPS systems with maximum 100 safety luminaires, an isolated electrical company system is not necessary.

In case of LPS systems with more than 100 safety luminaires and shared set-up with the main or sub-distributor of the general power supply (AV) in a closed electrical company system, or in case of the need for increased fire protection measures on behalf of regulatory offices, the certified ESF30 system with functional integrity offers a solution.

* Placement for LPS systems is very different according to the region. In case of questions, our regional field technicians are happy to help.

SU CONTROL

Online visualisation

Location-independent visualisation of all emergency lighting systems in a group or one area of responsibility.

Uncomplicated **information** about the **status of the systems** via e-mail.

Virtual SU

Monitoring and controlling multiple systems via remote access, without a technician onsite.

Active start for functions, software updates, **downloading test reports or status information** for multiple systems simultaneously.

Inter-system programming

Clearly laid-out, user-friendly editing of the display for all network-capable, **safety-relevant input contacts** (e.g. 3-PH) and contact assignments of luminaires.

SU CONTROL system requirements

Windows 10
Windows Server / 2012 / 2012 R2 / 2016 / 2019
Net-Framework 4.5 (Microsoft Support läuft aus)
Net-Framework 4.7.2

- **Prozessor:** min. 1,5 GHz required (at a high number of devices e.g. i5 16 GB RAM)
- **RAM:** up to 40 systems, min. 2 GB RAM required
  more than 40 systems, 4 GB RAM required
- **Graphics card:** min. 128 MB RAM required
- **Free hard drive space:** min. 200 MB required
- **USB-Port:** 1x for installation medium
- **Ethernet connection:** 1 x RJ45
- **For details about required ports,** please refer to the **technical data sheet.**

Networking and visualisation of the mergency lighting systems

Layout and options

- Proprietary, self-contained emergency lighting network thanks to a virtually isolated sub-network
- Thanks to the switching function integrated with the system, no star-shaped wiring is needed for the network
- Up-stream remote monitoring via SU CONTROL
- Client and server application
- din emergency lighting network with safety function in case of line break
- TCP / IP with static and dynamic (DHCP) IP addresses possible
- TCP / IP Modbus interface

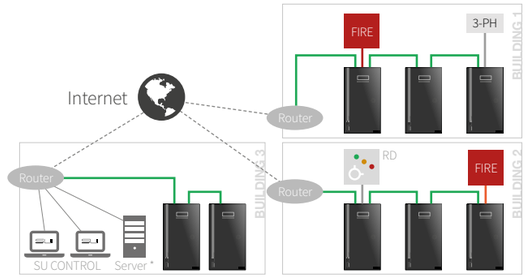
Network requirements

- **Network wiring:** min. Cat5e
- **SU NET emergency lighting network:** no third-party devices are permitted due to the high safety standards

Integration of visualisation with the building control system

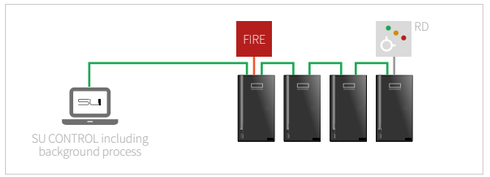
A TCP / IP Modbus interface is available for integration with the building control system. For more information, please contact your din contact person.

Integration with the company network



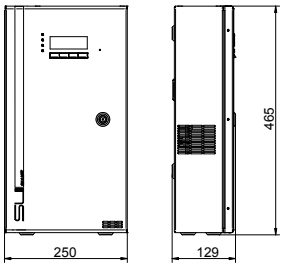
* Background process with permanent monitoring

Physically isolated emergency lighting network

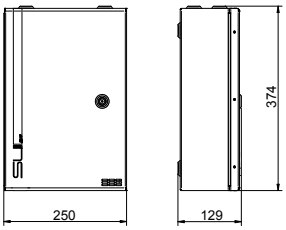


SU NET

Dimensional drawing [mm]



SU 2 NET Art. no.: 5090100
SU 6 NET Art. no.: 5120100
SU 6 FSU Art. no.: 5130100



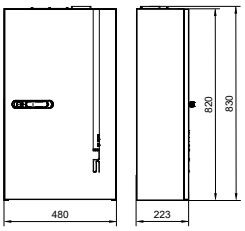
SU P Art. no.: 5024101

Technical data

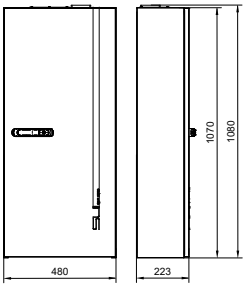
System design:	Wall-mounted enclosure system, sheet steel powder-coated black, RAL 9005
Mains connection:	1~ 230 V AC, 50 Hz
Max. connection cross-sections:	Mains: 4 mm², battery: internal / circuits: 2,5 mm²
Cable entry:	Foam rubber, from above, 12 x Ø 15 mm, 12 x Ø 21 mm
Ambient temperature:	Operation: 0 °C to +35 °C Battery: ideal 20 °C (VRLA / AGM), 25 °C (LiFePO4)
Max. relative humidity:	85 % without condensation
Protection class:	⏚
Protection type:	IP 20
Safety power source:	24 V DC / 12 Ah (without SU P) 24 V DC / 36 Ah (with SU P)
Battery type:	Lithium-iron-phosphate(LiFePO4) or closed lead batteries (VRLA / AGM) available.
Circuits free programmable:	2 pieces with 20 addresses each (SU 2 NET) 6 pieces with 20 addresses each (SU 6 NET, SU 6 FSU)
Weight:	15 kg (without SU P) 35 kg (with SU P
Door design:	Door hinge left, double-bit cylinder

SU ESF30

Dimensional drawing [mm]



SU 2 NET ESF30 Art. no.: 5098300
SU 6 NET ESF30 Art. no.: 5128300
SU 6 FSU ESF30 Art. no.: 5138300



SU 2P NET ESF30 Art.Nr.: 5158300
SU 6P NET ESF30 Art.Nr.: 5188300
SU 6P FSU ESF30 Art.Nr.: 5198300

Technical data

System design:	Emergency lighting supply unit with function 30 minutes as wall-mounted or free-standing installation, free-standing or freely suspended installation
Mains connection:	1~ 230 V AC, 50 Hz
Max. connection cross-sections:	Mains: 4 mm², battery: internal / circuits: 2,5 mm²
Cable entry:	from above - SU ESF30 cable bulkhead - 24 x Ø 18 mm
Ambient temperature:	Operation: 0 °C bis +35 °C battery: ideal 20 °C (VRLA / AGM), 25 °C (LiFePO4)
Max. relative humidity:	85 % without condensation
Protection class:	⏚
Protection type:	IP 20
Safety power source:	24 V DC / 12 Ah (SU 2 NET ESF30, SU 6 NET ESF30, SU 6 FSU ESF30) 24 V DC / 36 Ah (SU 2P NET ESF30, SU 6P NET ESF30, SU 6P FSU ESF30)
Battery type:	Lithium-iron-phosphate (LiFePO4) or closed lead batteries (VRLA / AGM) available
Circuits free programmable:	2 pieces with 20 addresses each (SU 2 NET ESF30, SU 2P NET ESF30) 6 pieces with 20 addresses each (SU 6 NET ESF30, SU 6P NET ESF30, SU 6 FSU ESF30, SU 6P FSU ESF30)
Weight:	max. 60 kg for SU 2 NET ESF30, SU 6 FSU ESF30, SU 6 NET ESF30 max. 90 kg for SU 2P NET ESF30, SU 6P NET ESF30, SU 6P FSU ESF30
Door design:	Door hinge left, double-bit cylinder
Certification:	DTest report no. 321110204-1 and 321110204-2
Notes:	Solid wall, ceiling or floor for certified installation required! SU (P) ESF30 mounting set for freely suspended / freestanding version! General installation conditions according to data sheets and installation / operating instructions!

SU CONTROL

SU CONTROL Basic	5006200
SU CONTROL Pro	5006300

Accessories

I/O module	5004806
I/O module IP54	5004808
FSU remote enable switch Installation / assembly	5024900
SU.F3 remote display	5024200
SU.F3 remote display with buzzer	5024201
SU ESF30 free-standing / free-hanging mounting set	5008101
SU P ESF30 free-standing / free-hanging mounting set	5008102
SU ESF30 adapter for half-cylinder	5008103
SU ESF30 36000 half-cylinder	5008104
SU (P) ESF30 potential equalisation rail	5008105

Emergency lighting experts

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