

# WSNet Call Button

## SLC 200

The radio-based WSNet Call Button SLC 200 enables a fast and error-free material request for a large load carrier (LLC), at the press of a button.

The SLC 200 submits the request directly to a WSNet gateway GLC 100E by means of its integrated WSNet radio modem. Instantly, WSN's AMS eKanban system forwards the request to the ERP system. This results in a significantly higher efficiency compared to conventional Kanban work flows.

Thanks to the graphical, high-contrast and power-saving e-paper display of the SLC 200, many status information can be displayed visually. Examples are:

- Order status in the ERP system
- Warning and handling instructions
- Barcodes and QR codes, for example for material linking by scanner
- Illustration or design drawing of the linked material

The future-oriented LoRa™ wireless technology of the SLC 200 makes the



known problems of WLAN-based systems forget. The device does not occupy an IP address in the LAN's private address space. In addition, "dead spots" and unstable connections are now finally a thing of the past.

Compared to conventional retrieval systems, the WSNet Call Button SLC 200 offers additional advantages:

- Real-time notification of the demand on the assigned material by push of a button
- avoiding human errors by means of extensive automation and simple operation
- connection to existing ERP systems via WSN AMS system
- interference-resistant and energy-efficient wireless technology
- high mobility and flexibility thanks to independence from any cable network
- cost-effective installation and maintenance

<sup>1</sup> LoRa™, LoRa™ Alliance and LoRaWAN™ are registered exclusive trademarks of Semtech Corporation.

- high range up to 1,000 m within buildings
- battery change in a few seconds by means of hinge mechanism (screwless)
- battery life up to 12 months
- highly scalable up to several hundred monitored LLC locations

The optional dual AES 128 encryption meets the highest data security requirements.

Due to its robust and dust-tight housing, the Call Button SLC 200 can even be used in harsh industrial environments.

## Functions

- wireless material request by the push of a button
- bidirectionality: receiving and sending radio telegrams
- display of material status information, alerts and notifications via integrated e-paper display
- measurement and signalling of battery level
- Optional: measurement and radio transmission of environment temperature and relative humidity

## Technical Specifications

- Main processor: STMicroelectronics STM32 ARM Cortex-M3 RISC MCU
- Clock rate: 32 MHz
- RAM: 384 KB FLASH
- Radio technology: LoRa LPWAN 868 MHz

- Integrated on-board antenna
- Transceiver Semtech SX1277
- Bandwidth: up to 500 kHz
- Data rate: up to 27 kbps
- Transmission power:  $\leq +14$  dBm
- Power consumption: max. 0,2 W
- achievable range up to 1,000 m (within buildings)
- ambient temperature range:
  - 0° C to + 55° C
- ambient rel. humidity:
  - 0 to 90 % (non-condensing)
- Industrial housing
  - Material: polycarbonate, graphite gray like RAL7024 with transparent lid
  - Dimensions: 151x80x40 mm
  - Display E-Ink 2.9", 296x128 pixels, 112 dpi
  - Push button actuation force 4 N, vandal protection IK 09, at least 1 million switching cycles
  - IP65 rated
- Power supply
  - 3,6 V lithium cell

## Delivery Scope

- Material call button with e-ink display and integrated radio module
- Lithium battery 3,6 V, 3,6 Ah
- Installation Guide
- CE declaration of conformity