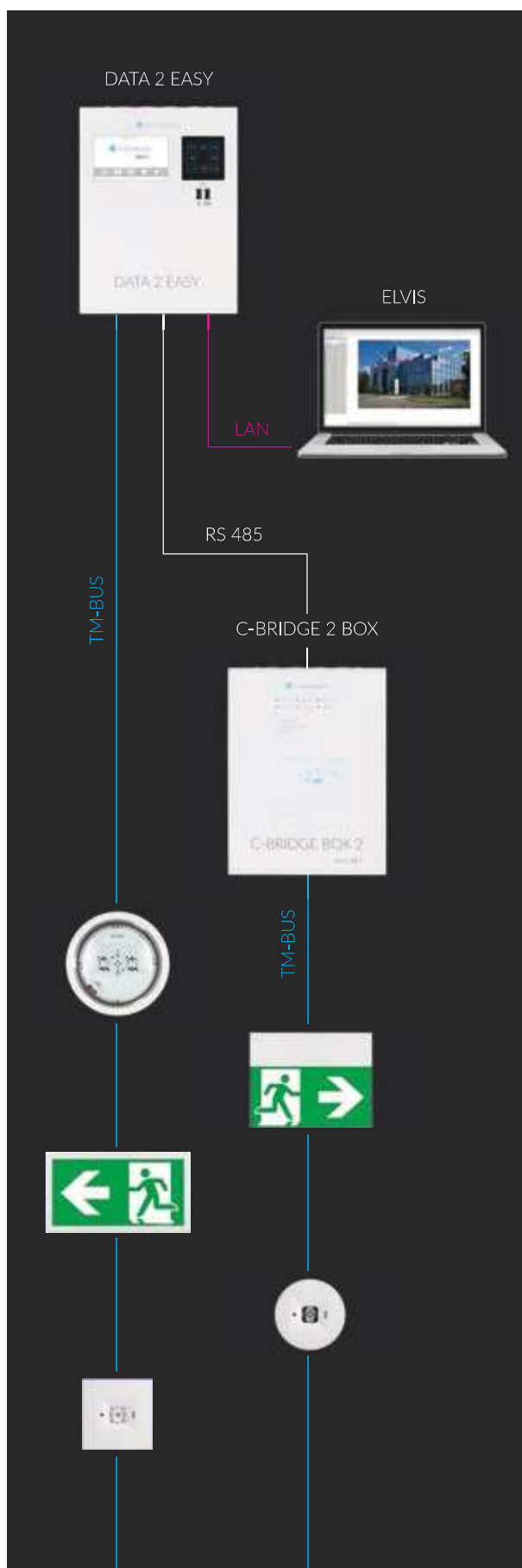DATA 2 EASY

# DATA 2

## SELF-CONTAINED ADDRESSABLE SYSTEM

# DATA 2 EASY

**SELF-CONTAINED ADDRESSABLE SYSTEM**



» Monitoring of the configured system with up to 512 fittings - ideal for small and medium-sized investments.

» All parameters of the fittings, the addresses of which are displayed in the control panel, are downloaded by the panel in a continuous manner.

» Possibility to download reports and logs stored in the device's memory.

» Software update via USB port.

» Communication between the panel and fittings is carried out by means of the built-in C-BRIDGE 2 signal splitter, through the two-wire TM-Bus communication bus, which does not require polarisation maintenance.

» Easy and intuitive navigation via keyboard and LCD display, additional possibility to connect the keyboard or mouse via USB port.
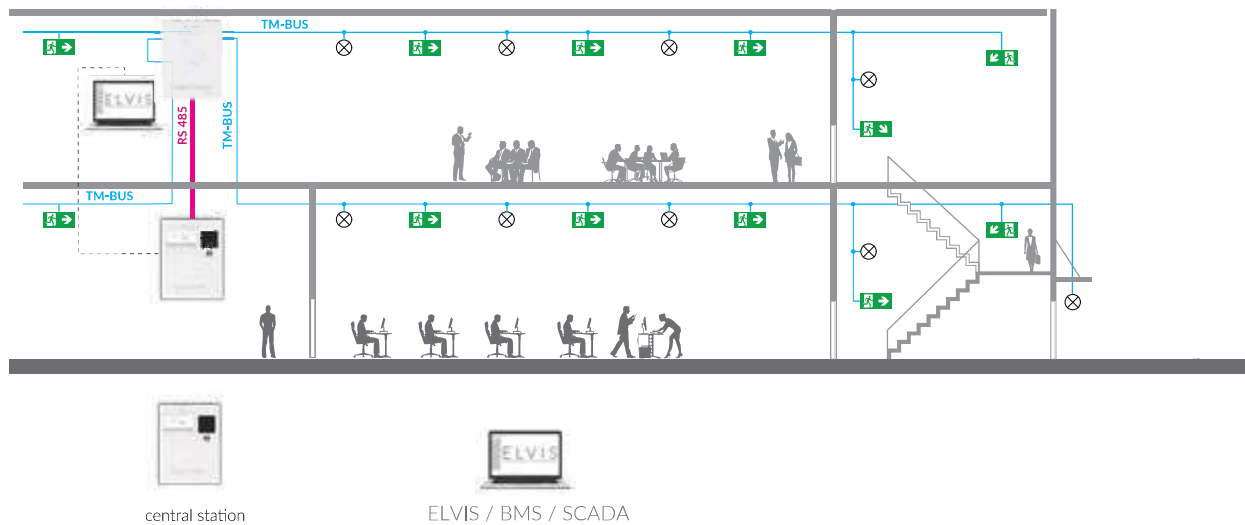
DATA 2 EASY

ELVIS

LAN

RS 485

TM-BUS

C-BRIDGE 2 BOX

TM-BUS

$$64 \quad x \quad 4 \quad x \quad 2 \quad = \quad 512$$

| maximum number of emergency fittings / channel | maximum number of communication channels | maximum number of signal distributor | maximum number of emergency fittings in the system |
|---|---|---|---|



central station

ELVIS / BMS / SCADA

## BASIC SYSTEM PARAMETERS

| | |
|---|---|
| Max. number of emergency fittings / channel | 64 |
| Maximum number of communication channels | 4 |
| Maximum number of C-Bridge 2 signal distributor | 2 |
| Max. number of emergency fittings in the system | 512 |

## HOUSING DATA 2 EASY

| | |
|---|---|
| Dimensions (H x W x D) | 307 x 230 x 59 mm |
| Material | RAL 9003 powder coated black steel |
| Protection degree | IP20 |
| Insulation class | I |

## WIRING

| | |
|---|---|
| Communication with controller | RS 485 port |
| Communication with ELVIS, WWW, MODBUS TCP | LAN |
| Communication with addressable devices | TM-BUS 2-wire data bus (without polarity) - communication cable |

for example: YTKSYekw 1 x 2 x 0.8 mm$^2$ or other wires complying with the parameters:
   length: max. up to 1,000 m
   operating temperature: -15$^0$C to + 70$^0$C
   resistance: max. 75 $\Omega$/km
   conductor capacity: max. 120 nF/km

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## C-BRIDGE 2

Intermediary device for communication between the controller and DATA 2 series addressable devices. The control panel is equipped with one splitter as a standard, but optionally it is possible to connect a second signal splitter, thus increasing the maximum possible number of fittings to 512.

### C-BRIDGE 2 DATA 2 EASY DIN
For DIN rail mounting in switching stations and shafts.

| | |
|---|---|
| Supply voltage | 22-25 V DC |
| Number of fittings operated | < 64 / channel |
| Number of channels | 4 |
| Interface | RS-485 (for PC LAN connection, DATA 2 C-Panel control unit), TM-BUS |
| Bus voltage | 15-25 V |
| Bus communication speed | 5 kbit/s |
| Communication speed | RS-485: 19200 bit/s |
| Insulation class | III |
| Mounting | T-35 rail |

### C-BRIDGE 2 DATA 2 EASY
For mounting in dedicated housings.

| | |
|---|---|
| Supply voltage | 22-25 V DC |
| Number of fittings operated | < 64 / channel |
| Number of channels | 4 |
| Interface | RS-485 (for PC LAN connection, DATA 2 C-Panel control unit), TM-BUS |
| Bus voltage | 15-25 V |
| Bus communication speed | 5 kbit/s |
| Communication speed | RS-485: 19200 bit/s |
| Insulation class | III |

There is also available a version built in the C-BRIDGE BOX 2, allowing communication with emergency lighting fittings, while maintaining the parameters of C-BRIDGE DATA 2.
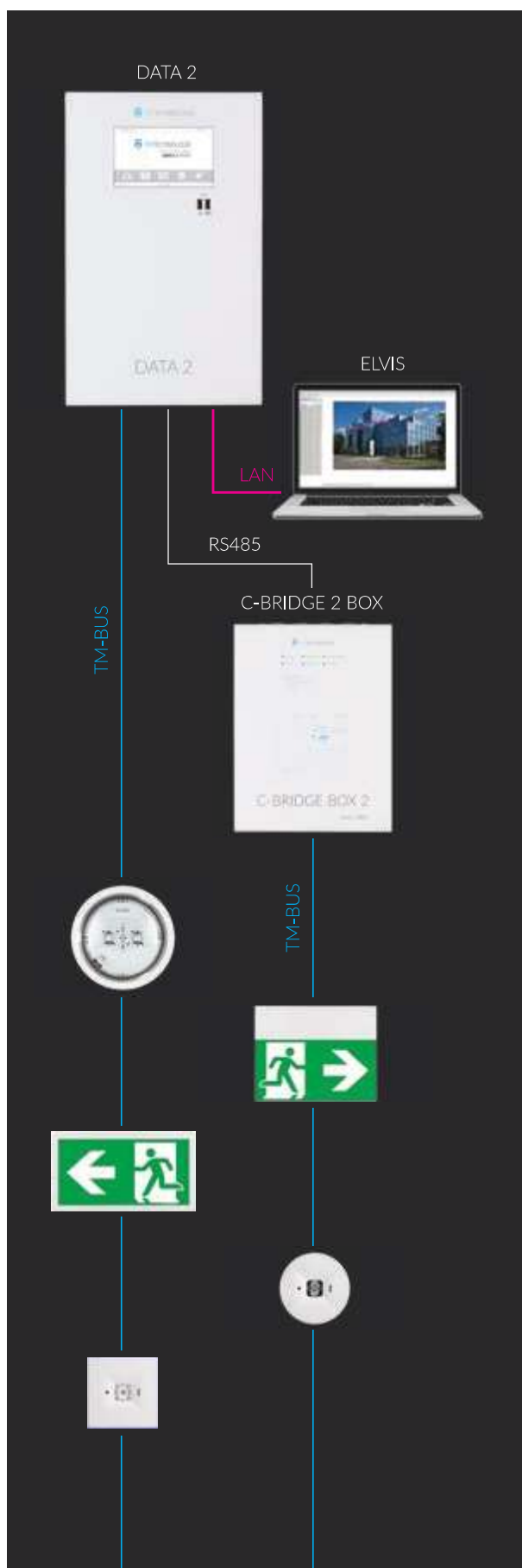
# DATA 2

## SELF-CONTAINED ADDRESSABLE SYSTEM



» Monitoring of a configured system with up to 4096 fittings - ideal for medium-sized and large investments.

» All parameters of the fittings, the addresses of which are displayed in the control panel, are downloaded by the panel in a continuous manner.

» The control unit has a built-in rechargeable battery that allows to monitor the fittings even during a loss of primary power supply.

» Possibility to download reports and logs stored in the device's memory.

» Software update via USB port.

» Communication between the panel and fittings is carried out by means of the built-in C-BRIDGE 2 signal splitter, through the two-wire TM-Bus communication bus, which does not require polarisation maintenance.

» Password protection for different levels of rights.
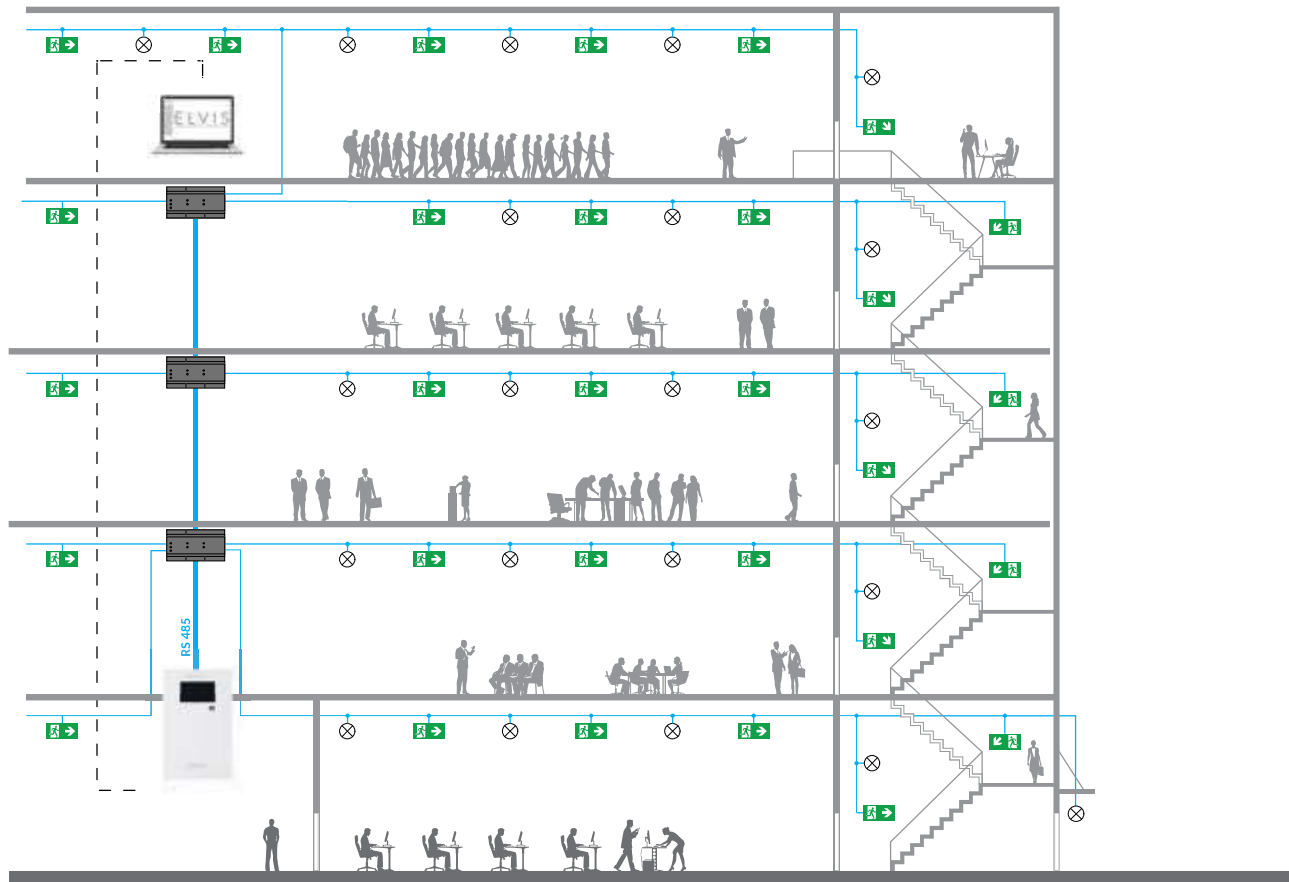
» Cooperation with smart building systems.

$$64 \quad x \quad 4 \quad x \quad 16 \quad = \quad 4096$$

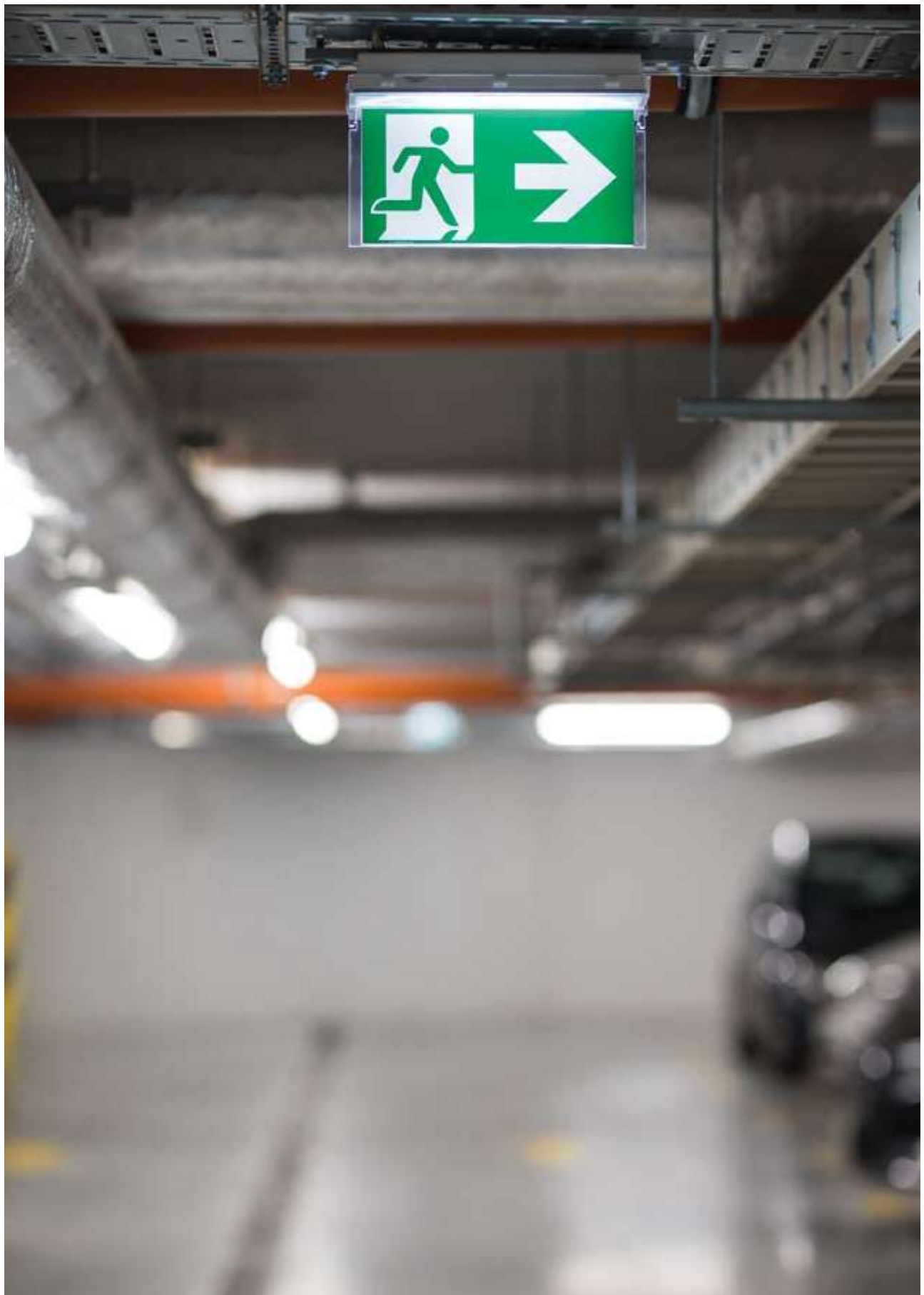| maximum number of emergency fittings / channel | maximum number of communication channels | maximum number of signal distributor | maximum number of emergency fittings in the system |
|---|---|---|---|



central station

ELVIS/BMS/SCADA

## HOUSING DATA 2

| | |
|---|---|
| Dimensions (H x W x D) | 485 x 302 x 70 mm |
| Material | RAL 9003 powder coated black steel |
| Protection degree | IP20 |
| Insulation class | I |

## BASIC SYSTEM PARAMETERS

| | |
|---|---|
| Max. number of emergency fittings / channel | 64 |
| Maximum number of communication channels | 4 |
| Maximum number of C-Bridge 2 signal distributor | 16 |
| Max. number of emergency fittings in the system | 4096 |

## WIRING

| | |
|---|---|
| Communication with controller | RS 485 port |
| Communication with ELVIS, WWW, MODBUS TCP | LAN |
| Communication with addressable devices | TM-BUS 2-wire data bus (without polarity) - communication cable |

for example: YTKSYekw 1 x 2 x 0.8 mm$^2$ or other wires complying with the parameters:
length: max. up to 1,000 m
operating temperature: -15$^0$C to + 70$^0$C
resistance: max. 75 $\Omega$/km
conductor capacity: max. 120 nF/km

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## CONTROLLER

Multifunctional device with touch panel. Controls emergency luminaires. Possibility to download reports on the flash drive and preview the system status through the website.
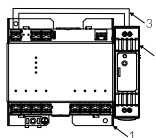
| | |
|---|---|
| Main menu | The following controls are available on the home page: system, luminaires, lighting groups, organiser, settings. |
| System | The "system" menu allows you to quickly determine the system status. |
| Fittings | The luminaires window allows you to view the status of luminaires installed in the system. |
| Test groups | The system allows you to add 128 test groups. The task of the groups is to automatically (regularly) trigger tests according to the preset schedule. |
| Organiser | After selecting the "Organiser" control it is possible to switch to the following modules: reports, logs, backups. |
| Settings | In the main menu, after selecting the settings control, it is possible to configure the panel settings: users, network, time panel, info. |

## I/O MODULE

Device enabling control of emergency lighting groups, dedicated to DATA 2 and TM-CB emergency lighting systems. IN input and OUT output models are available. The DATA 2 and TM-CB system allows the connection of up to 16 I/O modules. The address of each module is set on DiP-switches on their housing. IN SW, IN 24, IN 230 version is used to control the night lighting, fire-emergency lighting groups, fire scenarios and has 8 inputs. The output module (OUT) is used to inform about the system status. It has 8 potential-free outputs.

## VERSIONS

| | |
|---|---|
| IN SW | potential-free input |
| IN 24 | 24 V voltage detection |
| IN 230 | 230 V voltage detection |
| OUT | potential-free output<br>400 V AC/ 250 V DC, maks. 6 A |

| | | |
|---|---|---|
| 1 | TM-I/O | 2,4 W |
| 2 | DR-15-12, 12 V 15 W | 1,2 W |
| 3 | CCA 2×0,75 mm | 1,2 W |

## I/O MODULE MODELS PARAMETERS

| Model | Power IN | $P_{max}$ | $I_{max}$ | $IN_{1-8} U_{max}$ | $K_{1-8} U_{max}$ | $K_{1-8} I_{max}$ | I,II,III |
|---|---|---|---|---|---|---|---|
| OUT | 12 V DC ±10% | 2,4 W | 170 mA | - | 400 V AC / 250 V DC | 6 A | ⏚ |
| IN SW | 12 V DC ±10% | 1,2 W | 100 mA | - | - | - | ◈ |
| IN 24 | 12 V DC ±10% | 1,2 W | 100 mA | 30 V DC | - | - | ◈ |
| IN 230 | 12 V DC ±10% | 1,2 W | 100 mA | 250 V AC | - | - | ⏚ |

## C-BRIDGE 2

Intermediary device for communication between the controller and DATA 2 series addressable devices. The control panel is equipped with one splitter as a standard, but optionally it is possible to connect a second signal splitter, thus increasing the maximum possible number of luminaires to 512.

### C-BRIDGE 2 DATA 2 DIN

With battery for DIN rail mounting in switching stations and shafts.

| | |
|---|---|
| Supply voltage | 22-25 V DC |
| Battery | LiFePO4 Battery Pack 19.2 V 3Ah (18650) Balanced |
| Number of luminaires operated | < 64 / channel |
| Number of channels | 4 |
| Interface | RS-485 (for PC LAN connection, DATA 2 C-Panel control unit), TM-BUS |
| Bus voltage | 15-25 V |
| Bus communication speed | 5 kbit/s |
| Communication speed | RS-485: 19200 bit/s |
| Insulation class | III |
| Mounting | T-35 rail |

### C-BRIDGE 2 DATA 2

With battery for mounting in dedicated housings.

| | |
|---|---|
| Supply voltage | 22-25 V DC |
| Output voltage | 12 V DC 0,67 A |
| Number of luminaires operated | < 64 / channel |
| Number of channels | 4 |
| Interface | RS-485 (for PC LAN connection, DATA 2 C-Panel control unit), TM-BUS |
| Bus voltage | 15-25 V |
| Bus communication speed | 5 kbit/s |
| Communication speed | RS-485: 19200 bit/s |
| Insulation class | III |

There is also available a version built in the C-BRIDGE BOX 2, allowing communication with emergency lighting fittings, while maintaining the parameters of C-BRIDGE DATA 2.

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