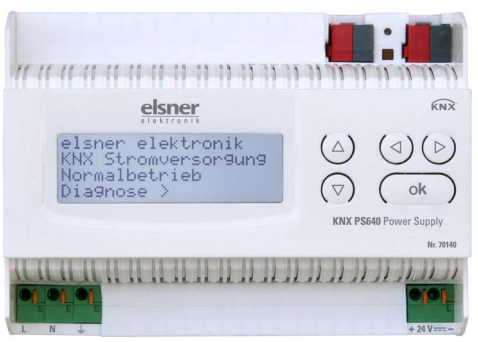
KNX PS640 Power Supply System

Manual
Item number 70140



1. Installation and Commissioning

Installation, testing, operational start-up and troubleshooting should only be performed by an authorised electrician.

DANGER!
Risk to life from live voltage (mains voltage)!

- Inspect the device for damage before installation. Only put undamaged devices into operation.
- Comply with the locally applicable directives, regulations and provisions for electrical installation.
- Immediately take the device or system out of service and secure it against unintentional switch-on if risk-free operation is no longer guaranteed.

Use the device exclusively for building automation and observe the operating instructions. Improper use, modifications to the device or failure to observe the operating instructions will invalidate any warranty or guarantee claims.
Operate the device only as a fixed-site installation, i.e. only in assembled condition and after conclusion of all installation and operational start-up tasks, and only in the surroundings designated for it.
Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

For information on installation, disposal, scope of delivery and technical data, please refer to the installation instructions.

2. Description

The **Power Supply System KNX PS640** delivers a 29 V bus voltage for one line of the KNX building bus system and the supply voltage for 24 V DC devices. Special operating conditions such as short circuit, overvoltage, overload or excess temperature are recorded and may be read off on the display. The present power discharge is displayed as well. A reset of the line is possible via the keypad.

Functions:

- Delivers a **29 V KNX bus voltage** (reduced), output current max. 640 mA, short-circuit proof
- Delivers **24 V DC** (not reduced), output current max. 150 mA
- **Reset** of a line directly on the device
- Record of operating hours, overload, external overvoltage, internal overvoltage, short circuit and excess temperature
- Display of operating data bus voltage, bus current and temperature of the device
- The display may be shown in German, English, Spanish or Dutch

2.1. Starting Position

```
elsner elektronik
KNX Power Supply
Normal Operation
Diagnostics >
```

The following may be read off and set on the display of the power supply system KNX PS640:
- Reset of a line
- Recall of the data memory with operating hours, overcharge, external electrical surge, internal electrical surge, short circuit and excess temperature
- Recall of the operating data bus voltage, bus current and temperature
- Language of display

The display is dimmed after 60 seconds if during this period no key is pressed.

2.2. Key functions in display menu

▷	Confirms the selection, moves to the next step.
◁	One step back.
▽ △	Changes a setting (selects a setting or changes a value). The cursor (the blinking rectangle) indicates the selected menu item.
ok	Confirms the settings and returns to the device main menu.

2.3. Line reset

Standard screen:

```
elsner elektronik
KNX Power Supply
Normal Operation
Diagnostics >
```

Press key ▷ once.

```
Line Reset      > ▓
Data Memory     >
Operating Data  >
Language        >
```

Press key ▷ once more in order to get into the sector „Line reset“.

```
Reset: Yes          ▓
       No
       30 seconds
Reset not active!
```

Move the cursor (flashing rectangle at right edge) to the desired setting with the keys ▽ or ▽ and confirm with key **ok**.

Yes	Reset is activated. The line is switched to neutral and shorted. The basic setting displays: „Reset is active!“
No	Reset not activated. The power supply system works in normal operation.
30 seconds	A reset of 30 seconds is started. Afterwards, the line is supplied with voltage as usual. During the reset state, which lasts 30 seconds, the basic setting displays: „Reset active: XX sec“ (countdown).

With key ◁, you return to the previous menu level.

2.4. Data memory

Standard screen:

```
elsner elektronik
KNX Power Supply
Normal Operation
Diagnostics >
```

Press key ▷ once.

```
Line Reset      >
Data Memory     > ▓
Operating Data  >
Language        >
```

Move the cursor (flashing rectangle at right edge) to the „Data memory“ menu with the keys ▽ and △ and confirm with key ▷.

```
Hours of Operation > ▓
Overload           >
Ext. Overvoltage   >
Int. Overvoltage   >
```

```
Short circuit      >
Excess Temperat.   >
```

Move the cursor to the desired menu with the up and down keys and press key ▷.

2.4.1. Operating hours

```
Run time:  0 years
  0 day  0 hrs.

< = Back
```

The operating hours of the power supply system are displayed in years, days and hours.

With key ◁ you return to the previous menu level.

2.4.2. Overload

```
Run time:  0 years
  0 day  0 hrs.

< = Back
```

The number of overload incidents and the total time in days, hours and minutes are displayed.

With key ◁ you return to the previous menu level.

2.4.3. External Overvoltage

```
External Overvoltage
was detected
0 times.
< = Back
```

The number of external overvoltage incidents is displayed.

With key ◁ you return to the previous menu level.

2.4.4. Internal Overvoltage

```
Internal Overvoltage
was detected
0 times.
< = Back
```

The number of internal overvoltage incidents is displayed.

With key ◁ you return to the previous menu level.

2.4.5. Short Circuit

```
A short at the bus was
detected
 0 times.
< = Back
```

The number of short circuit incidents at the bus is displayed.

With key ◁ you return to the previous menu level.

2.4.6. Excess Temperature

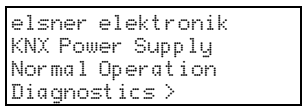
```
Excess Temperature on
the board
was detected
 0 times!
```

The number of excess temperature incidents on the circuit board of the device is displayed.

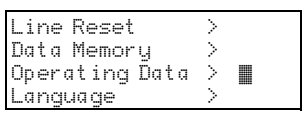
With key ◁ you return to the previous menu level.

2.5. Operating data

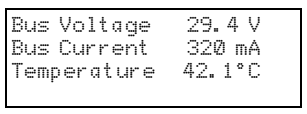
Standard screen:



Press key ▷ once.



Move the cursor (flashing rectangle at right edge) to the „Operating Data“ menu with the keys ▽ and △ and confirm with key ▷.



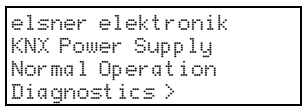
The current values of
- Bus voltage
- Bus current
- Temperature on the circuit board of the device

are displayed.

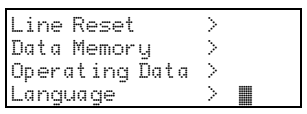
With key ◁ you return to the previous menu level.

2.6. Language

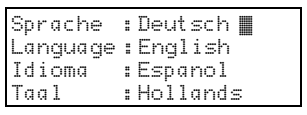
Standard screen:



Press key ▷ once.



Move the cursor (flashing rectangle at right edge) to the „Language“ menu with the keys ▽ and △ and confirm with key ▷.



Move the cursor to the desired language with the up and down keys and press the key **ok**. The display automatically jumps to the previous menu in the desired language. With key ◁ you get back by one menu level to the basic setting.

3. Maintenance

The device is maintenance-free. Do not complete any repairs! Do not insert any objects into the unit and do not open the unit.