

Orga CIP300-B placement, configuration & firmware update instructions

Goal: Explanation to replace, configure & update the firmware of an CIP300 module with the CIP300-B.

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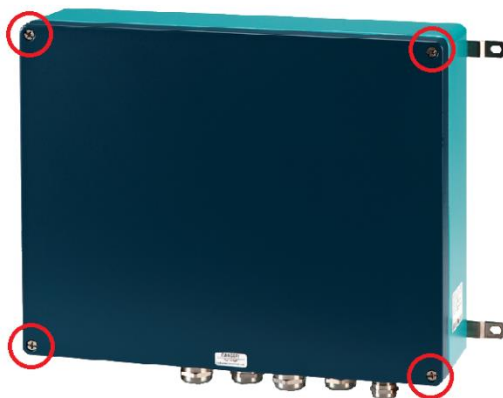
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Introduction

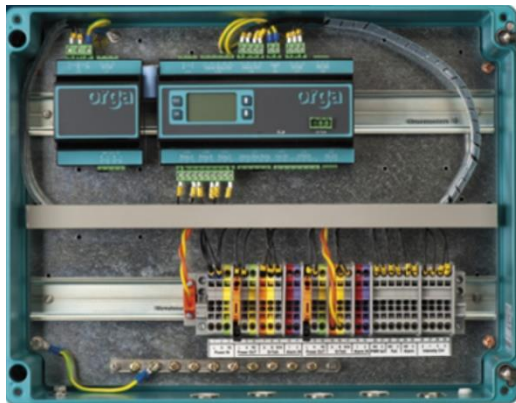
This document describes how the existing CIP300 module can be replaced by the new CIP300-B module, how to configure the CIP300-B module and how to perform a firmware upgrade using an SD memory card.

Replacement instructions

Disconnect power to the system.



Open the enclosure by unscrewing the 4 screws on the lid of the enclosure.



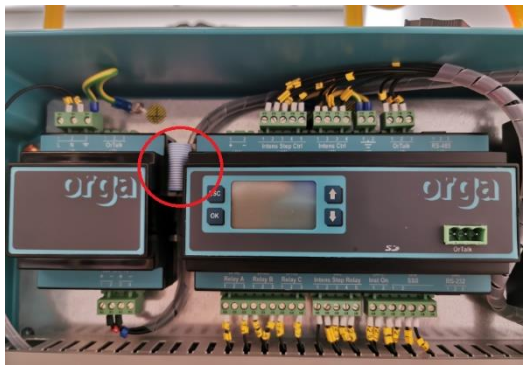
Open the lid of the enclosure.



Disconnect the connectors from the base module.



Disconnect the base module using a flat head screwdriver. Pull the lug backwards and at the same lift the CIP300 module upwards. The CIP300 module should now be detached from the mounting rail.



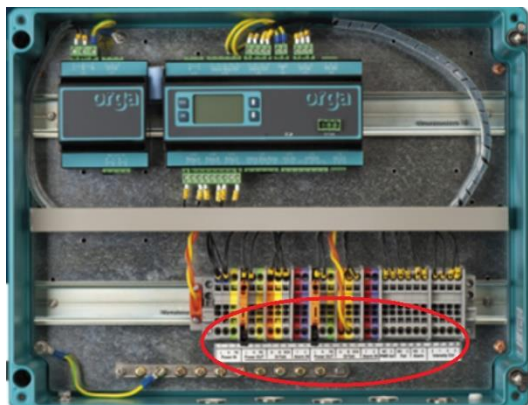
Remove the Flat cable from the side of the CIP300 module.

Connect the flat cable in the new CIP300-B module.

Click the new CIP300-B module in the mounting rail.



Connect the connectors to the new CIP300-B module.

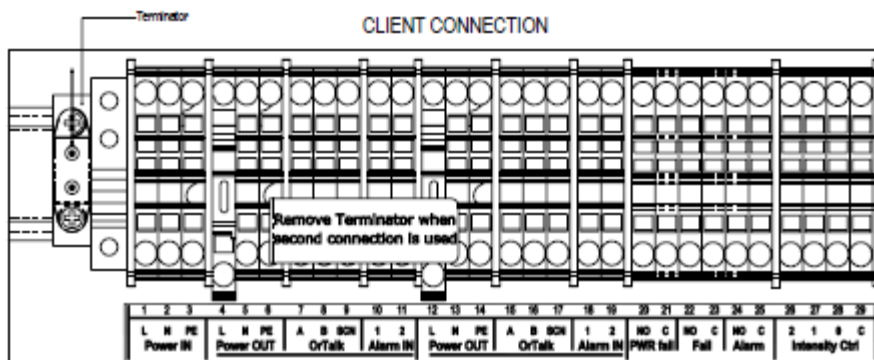


Install the new lights to the CIP300 controller.

Connect AEI402 (if applicable)

On the CIP300

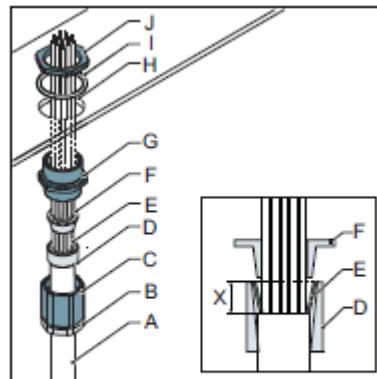
1. Remove the "power in" cable from the CIP300 (terminals 1 and 2). (Use this power cable as power cable for the AEI402).



On the AEI402

2. Insert the power cable (which used to be connected to the CIP300) in the AEI.
3. Use the following instruction for the gland.

1. Install the entry part (G) in hole of the cabinet (H);
 - a) Put the locking ring (I) on top of the thread;
 - b) Screw the nut (J) and tighten;
2. Strip the screen of the cable (E) over a distance of 11 mm (X).
3. Loosen the lock nut (B)
4. Put the cable (A) through these parts:
 - a. Lock nut (B);
 - b. Body (C);
 - c. Clamping ring (D);
 - d. Clamping cone (F).
5. Put the complete assembly through the hole (H). *Make sure that the cable is sufficient to make all the connections*
6. Push the body (C) into the entry part (G) and hand tighten.
7. Tighten the lock nut (B) with 4 complete turns.



4. Connect the power cable.

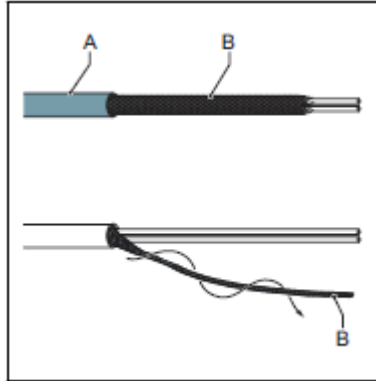
1. Connect the wires to the terminal strip X01 to these terminals:

| Wire | Wire colour |
|------------------|----------------|
| Phase (L or +) | Brown or black |
| Neutral (N or -) | Blue or white |

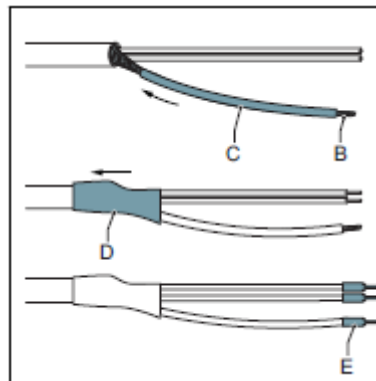
2. Connect the protective earth wire (green-yellow or green) to the protective earth rail.

5. Prepare the data part of the Ortalk cable:

1. Remove circa 10 cm of the cable jacket (A).
2. Unwind the screen (B) from the cable.
3. Twist the screen (B) to a strand.



4. Apply a shrink sleeve (C) around the screen strand (B).
5. Apply a shrink sleeve (D) around the cable.
6. Apply wire pins (E) at the ends of the screen strand and the wires.



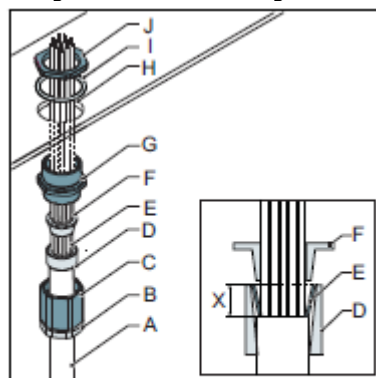
6. Connect the power + data cable use the following terminals.

| Wire | Colour | Terminal strip |
|---------------------|---------------------|----------------|
| Phase (L or +) | Brown or black | X11; X12 |
| Neutral (N or -) | Blue or white | |
| A | Orange | X31; X32 |
| B | Yellow | |
| Ortalk screen (SCN) | Black shrink sleeve | |
| Alarm wire 1 | Red | |
| Alarm wire 2 | Violet (Purple) | |

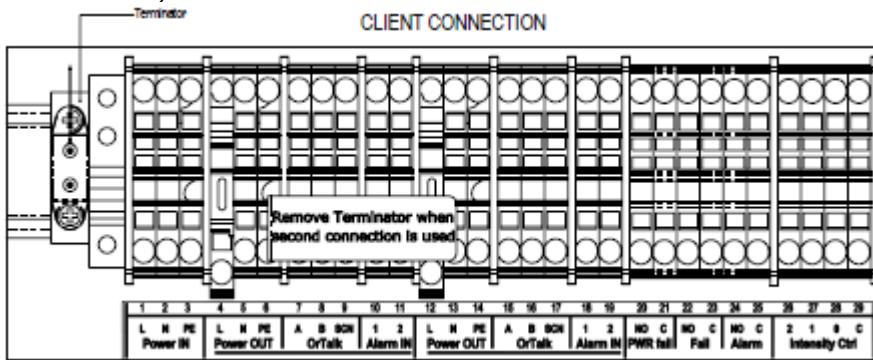
On the CIP300

7. Use the enclosure entry formerly used for the power cable to insert the AEI402 data + power cable. Use the following instruction for the gland.

1. Install the entry part (G) in hole of the cabinet (H);
 - a. a) Put the locking ring (I) on top of the thread;
 - b. b) Screw the nut (J) and tighten;
2. Strip the screen of the cable (E) over a distance of 11 mm (X).
3. Loosen the lock nut (B)
4. Put the cable (A) through these parts:
 - a. Lock nut (B);
 - b. Body (C);
 - c. Clamping ring (D);
 - d. Clamping cone (F).
5. Put the complete assembly through the hole (H). *Make sure that the cable is sufficient to make all the connections*
6. Push the body (C) into the entry part (G) and hand tighten.
7. Tighten the lock nut (B) with 4 complete turns.

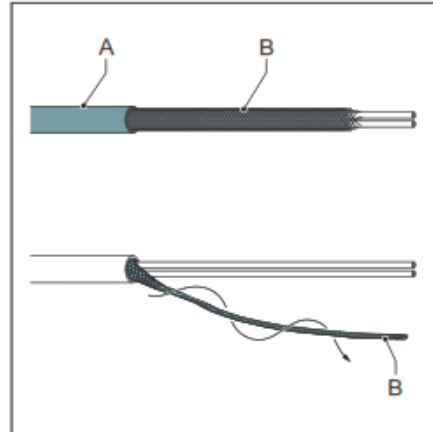


8. Connect the Brown and the Blue wire to the "power in" terminals (terminals 1 and 2)

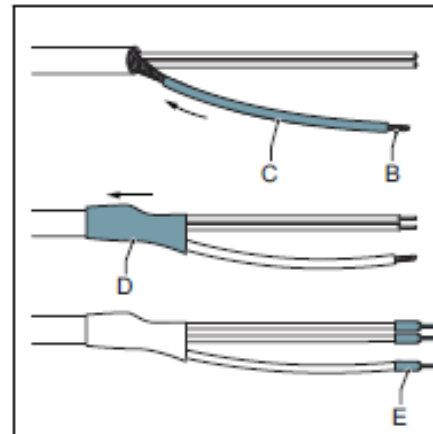


9. Prepare the data part of the Ortalk cable.

1. Remove circa 30 cm of the cable jacket (A).
2. Unwind the screen (B) from the cable.
3. Twist the screen (B) to a strand.



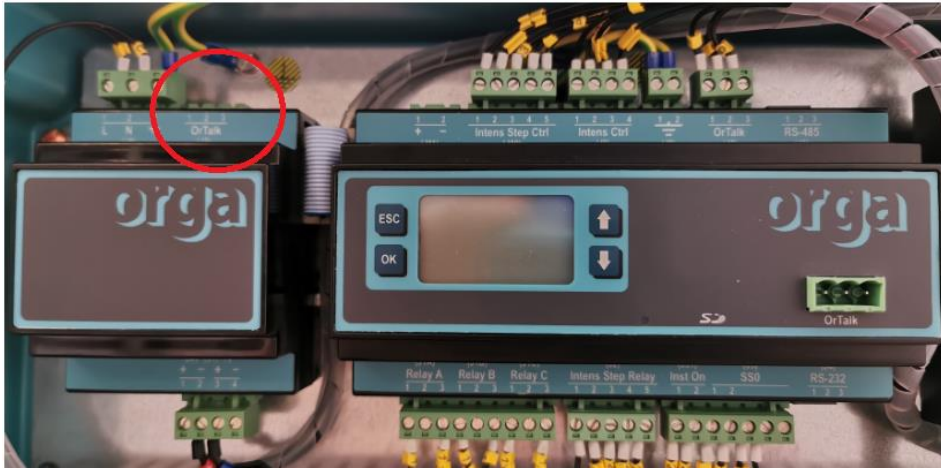
4. Apply a shrink sleeve (C) around the screen strand (B).
5. Apply a shrink sleeve (D) around the cable.
6. Apply wire pins (E) at the ends of the screen strand and the wires.



10. Connect the Orange, Yellow and Black wire to the supplied connector as follows:

| Wire | Colour |
|---------------------|---------------------|
| A | Orange |
| B | Yellow |
| Ortalk screen (SCN) | Black shrink sleeve |

11. Connect the connector to the CIP300 power module:



12. Connect the Red and Purple wire to the ground rail.

Configure the CIP300-B module



Use the screen and buttons to configure the CIP300 controller.



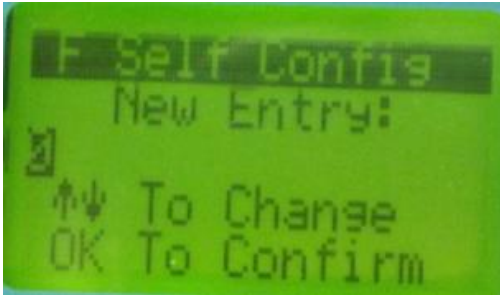
Press the "OK" button.



Use the arrow buttons to navigate to the "Config Menu" and press the "OK" button.



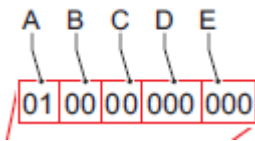
Select "Add Entry" and press the "OK" button.



Enter the self configuration code of the connected lights and other substations (if applicable).

The self configuration code of various substations can be found in appendix A of this document.

After entering the applicable code press the "Ok" button.



This picture explains how the self configuration code is constructed.

Note

The configuration code has these digits:

- A 01
- B Station number
- C The number of stations
- D Type number
- E Subtype number

Orga advises to use these station numbers:

- 01 for obstacle light 1
- 02 for obstacle light 2
- 71 for an MLC400
- 80 for an SWS
- 95 for an AEI



When several light variants, or substations need to be configured, select "add entry" and enter next the configuration code.

When all codes are entered, select "Configure" and press "OK".

The CIP controller will now restart and the CIP is configured.

Close the enclosure

Connect the power.

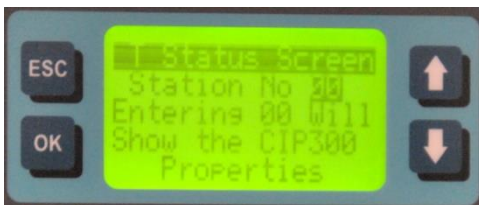
Determine firmware of the CIP controller:



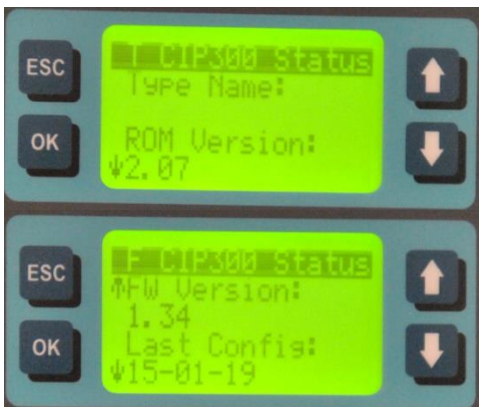
In the home screen press "OK"



Use the arrow buttons to go to "Status Screen" and press the "OK" button



Select station "00" and press the "OK" button



The applicable information is shown. In the following screen. Press the arrow down button for firmware information

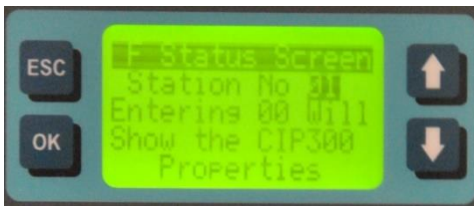
Determine firmware of connected obstacle lights and other sub stations:



In the home screen press "OK"



Use the arrow buttons to go to "Status Screen" and press the "OK" button



Use the arrow buttons to select the station number of the applicable obstacle light or other sub station



The applicable information is shown. In the following screen. Press the arrow down button for firmware information

If the firmware is older than stated below a firmware upgrade is required.
L450 <- firmware v1.7

Make sure that the L450 lights are configured as station 1 and (if applicable) station 2
If this is not the case, reconfigure the CIP controller.

Update firmware

Insert the provided SD card in the SD card slot of the CIP300.

Wait for +- 5 minutes

After 5 minutes check the firmware version as described in the previous chapter.

The firmware version should now be:

L450 -> Firmware version v1.72

The update is now completed

Appendix A

| | 1x | 2X |
|----------------------------|---------------|---------------|
| Light fixture | | |
| L240-GFW-IRG-G | 010101061019 | 010102061019 |
| L240-IRG-G | 010101061021 | 010102061021 |
| L550-GFW-ES-IRG-G | 010101037128 | 010102037128 |
| L550-GFW-ES-IRG-D4-G | 010101037129 | 010102037129 |
| L550-GFW-ES-G | 010101037037 | 010102037037 |
| L550-GFW-IR-G | 010101037076 | 010102037076 |
| L550-GFW-ES-IR-G | 010101037077 | 010102037077 |
| L550-GFW-ES-D4-G | 010101037078 | 010102037078 |
| L550-GFW-ES-IRG1-G | 010101037085 | 010102037085 |
| L550-GFW-ES-IRG2-G | 010101037094 | 010102037094 |
| L550-63Adt-G | 010401037081* | 010402037081* |
| L450-GFW-G | 010101019004 | 010102019004 |
| L450-63Ad-G | 010401019035* | 010402019035* |
| L450-63A/GFW-G | 010101019014 | 010102019014 |
| L450-63A/GFW | 010101019004 | 010102019004 |
| | | |
| L500-63B-IR-G | 010101030007 | 010102030007 |
| Ethernet controller | | |
| AEI402-22 | 019501077000 | |
| | | |
| Visibility sensor | | |
| SWS200-N-AC | 018001040000 | |
| SWS050-N-AC | 018001064000 | |
| | | |

*This light fixture is usually used in combination with a GFW light. In this case, make sure that the -63Ad(t) lights have different station numbers than the GFW lights.

