

MI_2090: Installation energy optimisation board



iVario 2-XS, iVario Pro 2-S



45 minutes



Standard



28/10/2025

 DANGER**High voltages when connecting to the mains power**

Danger to life due to high voltage.

- Disconnect from the power supply.
- Secure against unintentional switching on.
- Make sure the unit is disconnected from the power.

 DANGER**Electric shock from incorrect connection**

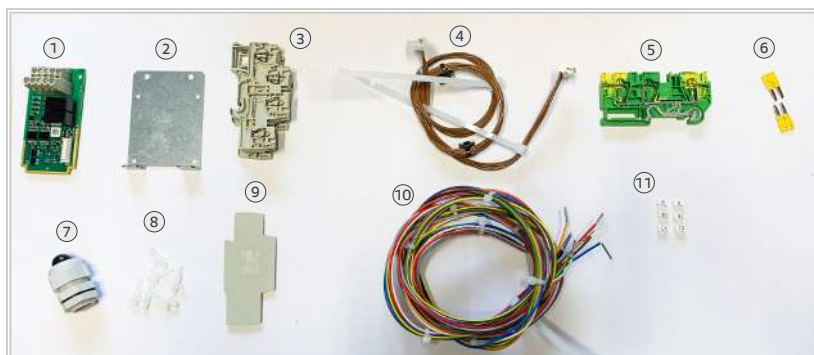
There is a danger to life if the wires are incorrectly connected.
Connect the wires correctly according to their colour coding.

 CAUTION**Sharp edges on the housing**

Risk of cuts on the housing when working in the electrical compartment.
Wear protective gloves.

Overview

Parts included in the energy optimization conversion kit for the iVario 2-XS and 2-S iVario Pro:



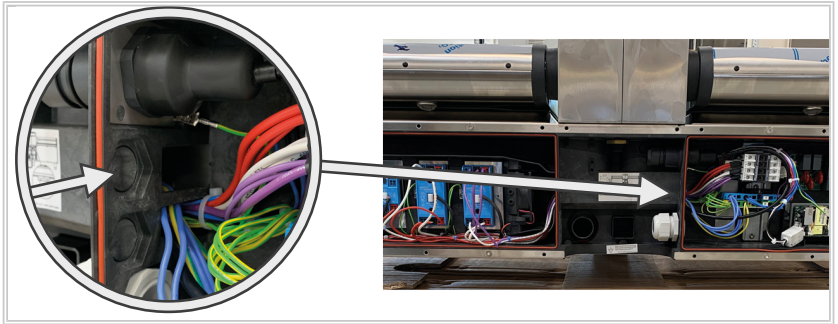
Energy optimisation conversion kit, article number: 87.01.813S

1	Energy optimisation board
2	Mount energy optimisation board
3	3 x through clamps 4 mm ² grey
4	Cable trunk W59
5	Terminal block 6 mm ² yellow-green
6	2 x 2-pole jumpers
7	Cable gland M20x1.5
8	6 x board retaining clips
9	End plate
10	Cable trunk W32
11	6 x identification clips

Mounting the cable gland

The cable gland is required for the subsequent cable of the energy optimisation control.

- ✓ The cooking system is disconnected from the power.
 - ✓ The cable gland is ready for use.
 - ✓ Open the electrical compartment, as described in the original installation manual for the cooking systems iVario 2-XS / iVario Pro 2-S in section *Opening the electrical compartment*. The electrical compartment is located behind the right cover on the rear.
1. Pierce one of the perforations with a suitable tool.



2. Attach the cable gland with seal and plug to the broken out position.
- >> The cable gland is mounted.

Installing clamps

1. Place the yellow-green terminal block on the blue N-terminal in the cooking system. Attach the end plate below the three through clamps and assemble them bundled onto the yellow-green terminal block.

NOTICE

Note that the end plate serves to separate the three through clamps and the terminal block.

2. Attach the 2 jumpers.



3. Attach the 6 identification clips.



Installing the energy optimisation board

NOTICE

Damage to the cable trunk and the control panel when removing the control panel

The control panel is connected to the installation compartment by a cable trunk.

Remove the control panel carefully in order not to damage the cable trunk.
Put down the control panel carefully and protect it against scratching.

NOTICE

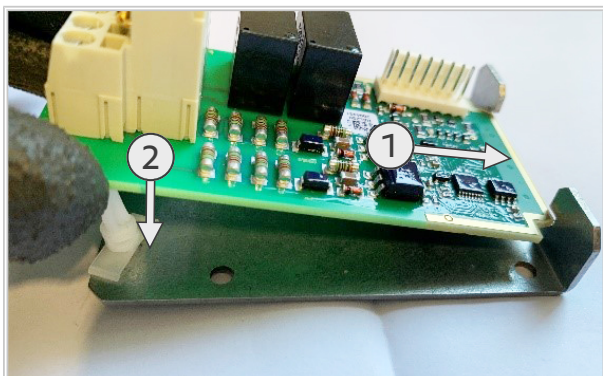
Incorrect objects for opening the control panel

Do not use any sharp or pointy objects to press the control panel upwards.
This could damage the housing and gasket.

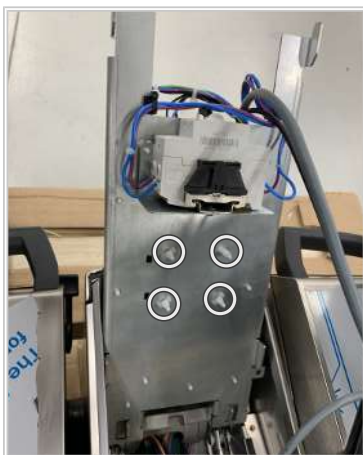
- ✓ The energy optimisation board mount and 6 board retaining clips are ready for use.
- ✓ The energy optimisation board is ready for use.
- 1. Attach 2 board retaining clips to the mount. The nibs on the mount must point upwards.



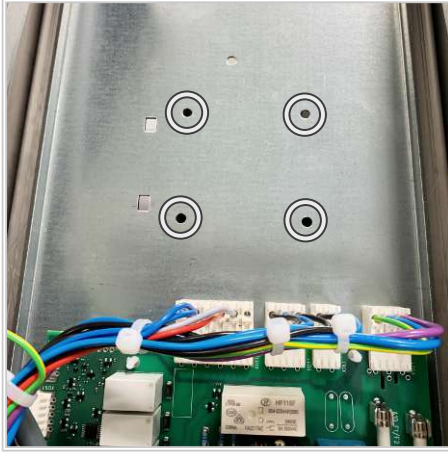
2. Place the board in the mounting slots (1) and place the board retaining clips (2).



3. For cooking system size 2-XS install the mount with 4 board retaining clips on the underside of the I/O board carrier.



4. For cooking system size 2-S install the mount with 4 board retaining clips on the top of the I/O board carriers.

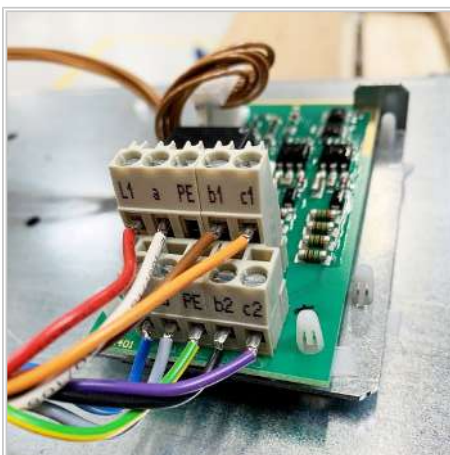


5. Insert the cables of the cable trunk W32 and screw them together:

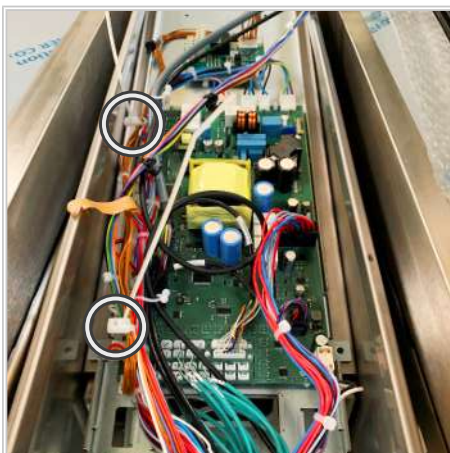
Wire colour	Connector terminal
Red	6T3 on the contactor
White	A
Black	B2
Purple	C2
Grey	T
Brown	B1
Orange	C1
Blue	Blue terminal
Yellow/green	Yellow-green terminal block



Wire colour	Connector terminal
Red	L1
White	and
Black	B2
Purple	c2
Grey	d
Brown	b1
Orange	c1
Blue	N
Yellow/green	PE



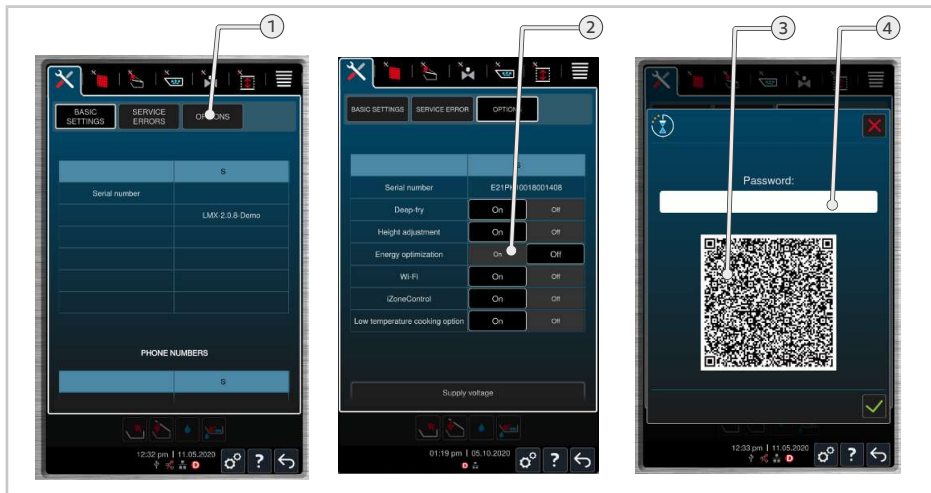
- Use the cable trunk W59 to connect connection X429 on the energy optimisation board to connection X29 on the I/O board.
- Connect all attached cables to the cable trunk.



8. Close the electrical compartment, as described in the original installation manual iVario 2-XS/ iVario Pro 2-S in section *Closing the electrical compartment*.
- >> The energy optimisation board is installed.

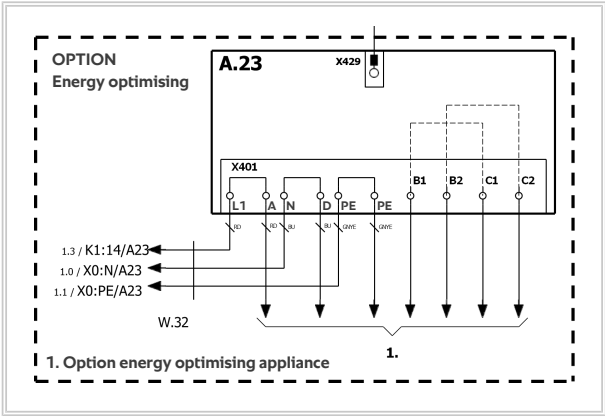
Activating the energy optimisation option

- ✓ The cable gland for the energy optimisation board is installed.
- ✓ The energy optimisation board is installed.
- 1. Switch the cooking system on. Go to the service level.
- 2. Open the Options page under the Service settings (1).
- 3. To activate the energy optimisation option, press the On button (2).
- 4. When an option is changed, a QR code is displayed on the screen (3).
- 5. Scan this QR code with the TechAssistant app.
- 6. If the QR code has been recognised, a confirmation code will be issued in the app. Enter this confirmation code on the cooking system and confirm (4).
- 7. Restart the cooking system.



>> The energy optimisation option is activated.

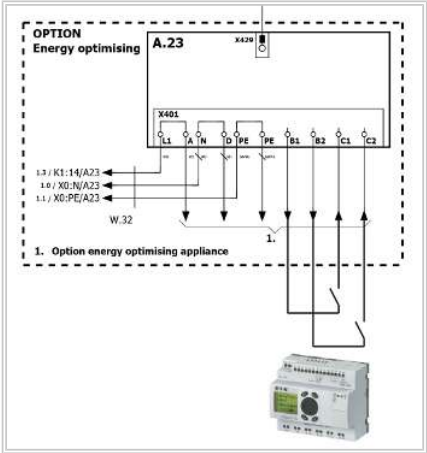
Connection to an external energy optimisation



Request for heat output of cooking system	Request on B1	Request on B2
0 %	0 V	0 V
50 %	230 V	0 V
100 %	230 V	230 V

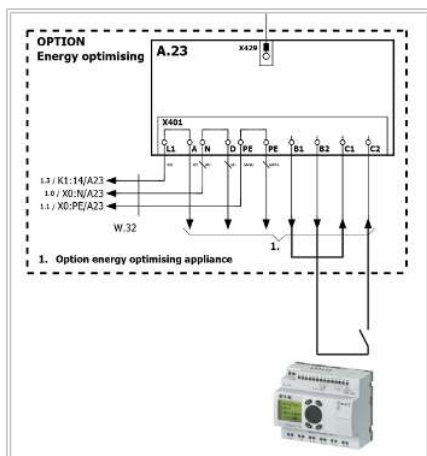
Connection possibilities

- Optimization: 0 % or 50 % or 100 %



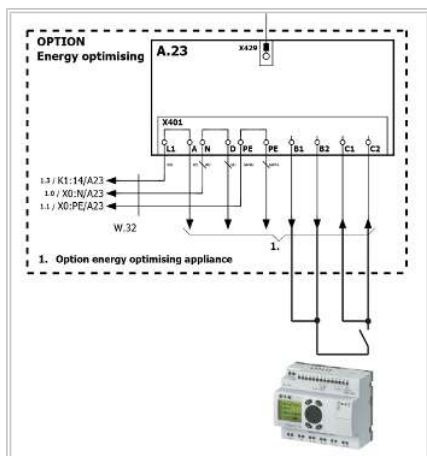
Heating output approved by the energy optimiser	Feedback on C1	Feedback on C2
0 %	0 V	0 V
50 %	230 V	0 V
100 %	230 V	230 V

- Optimization: 50 % or 100 %



Heating output approved by the energy optimiser	Feedback on C1	Feedback on C2
50 %	230 V	0 V
100 %	230 V	230 V

- Optimization: 0 % or 100 %



Heating output approved by the energy optimiser	Feedback on C1	Feedback on C2
0 %	0 V	0 V
100 %	230 V	230 V

NOTICE

To ensure optimal cooking results, do not reduce the heating for more than 10 seconds per minute.

