

MI_2507: Minimum hardware configuration - unit startup



iVario / iVario Pro



60 min



Standard



24/07/2025

Topic

The information describes the procedure if the unit cannot be started or stopped. In order to narrow down the cause, the unit is brought to a reduced and then to a minimal hardware configuration.

The normal state of the unit during startup, stop and emergency stop is described above.

The information is broken down as follows:

- Start sequence description (normal state) [► 3]
- Description of stop sequence (normal state) [► 4]
- Description of emergency shutdown (normal state) [► 5]
- Description - reduced/minimum hardware configuration - unit startup [► 5]
- Description of reduced hardware configuration [► 6]
- Description of minimum hardware configuration [► 7]
- Instruction - first attempt - reduced hardware configuration [► 8]
- Instruction - if the unit starts [► 8]
- Instruction - if the unit does not start [► 8]
- Instruction - second attempt - minimum hardware configuration [► 8]

Affected product/accessories

iVario

iVario Pro

Required tool

- Standard

General information

NOTICE

Enter the installation of the component on the service level ("Component replacement" tab). This is an integral part of the maintenance history.

Target group

Installation, inspection, maintenance and repair work must only be carried out by trained technicians and technicians authorised by the manufacturer. In order to prevent accidents or damage, the manufacturer recommends that technicians attend training and safety instructions.

NOTICE! You can find more information in the installation manual.

Safety instructions

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.

CAUTION

Sharp edges on the housing

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

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.

NOTICE

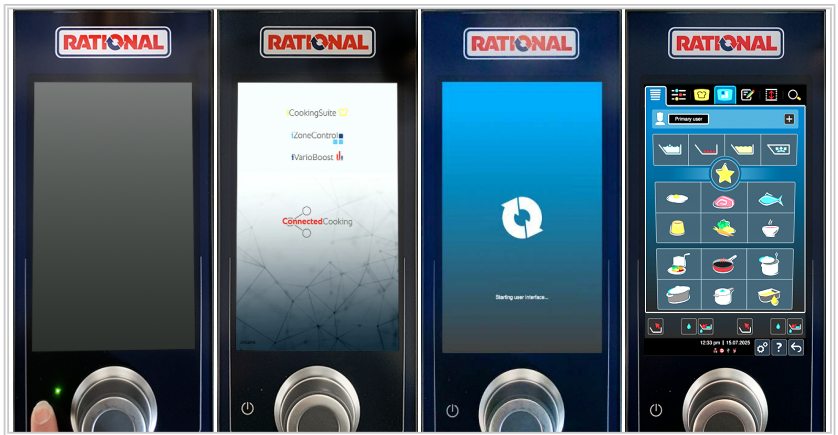
Observe regional and country-specific safety and testing regulations

The relevant regional, country-specific safety and testing regulations apply to all work on RATIONAL units. These regulations may vary by region and are country-specific and are therefore not listed separately in this document.

The technician is responsible for complying with these regulations.

Start sequence description (normal state)

- ✓ The unit is connected to the mains.
- ✓ The unit is switched off.
- 1. Touch the on/off sensor until the LED turns green.
 - If the LED lights up orange, follow the description in the following chapter Description of emergency shutdown (normal state) [► 5].
 - > If the unit starts normally, you can hear the main contactor activating.
 - > After about 10 seconds, a bright view appears with the headings **iCookingSuite**, **iZoneControl**, **iVarioBoost** and **ConnectedCooking**.
 - > After around another minute, a blue view appears with the RATIONAL logo and the text **Starting user interface...**
 - > After about another 8 seconds, the start page appears.



>> The start sequence in normal state is complete.

Description of stop sequence (normal state)

- ✓ The unit is switched on and all cooking applications are complete.
- 1. Touch the on/off sensor until the LED turns orange.
 - If the LED lights up green, the unit is in the start sequence.
 - > A message appears on the display asking whether you really want to switch off the unit.
- 2. To switch the unit off, swipe the bar to the right or turn and confirm with the central dial.
 - > A blue view with an hourglass and the message **Shutting down user interface...** appears on the display.
 - > A bright view then appears with the headings **iCookingSuite**, **iZoneControl**, **iVarioBoost** and **ConnectedCooking**.
 - > When everything is connected correctly and working properly, you will hear the main contactor drop off.
 - > The display turns black, the unit is switched off.



>> The stop sequence in normal state is complete.

Description of emergency shutdown (normal state)

- ✓ The unit is switched on.
- 1. Touch the on/off sensor until the LED turns orange.
 - If the LED lights up green, the unit is in the start sequence.
- 2. Briefly touch the on/off sensor again 3 times in a one-second cycle.
 - > When everything is connected correctly and working properly, you will hear the main contactor drop off.
 - > The display turns black, the unit is switched off.
 - >> The emergency shutdown in normal state is complete.

Description - reduced/minimum hardware configuration - unit startup

The unit can start (not work) with a minimum number of components involved. In this hardware configuration, it is possible to analyse which component is causing problems.

Troubleshooting is attempted with the **reduced hardware configuration** first. If this is unsuccessful, the attempt is carried out with the **minimum hardware configuration**.

Components required to start the unit:

- Power supply to I/O board A10
- Bus connection to CPU board A11
- On/Off sensor
- Displaying unit

All other components are optional for startup.

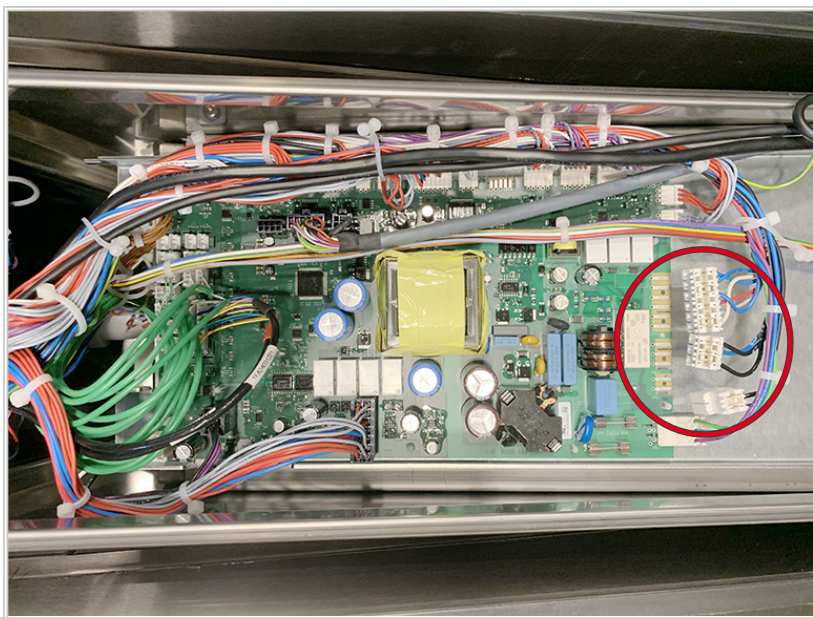
The touch display or central dial is also required for stopping.

Description of reduced hardware configuration

This description shows the state in the reduced hardware configuration.

For further instructions, see: Instruction - first attempt - reduced hardware configuration [► 8]

- The edge connectors **X76**, **X131** and **X133** are disconnected.



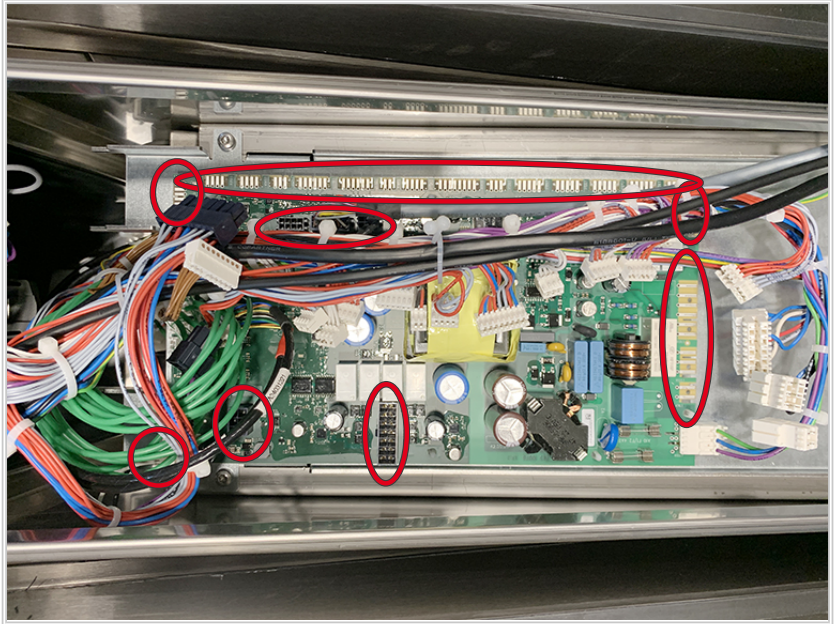
NOTICE! The supply voltage (generally 230 V AC) is applied to these ports.

Description of minimum hardware configuration

This description shows the status in the minimum hardware configuration.

For further instructions, see: Instruction - second attempt - minimum hardware configuration [► 8]

- All edge connectors are disconnected, except **X132**.
- Slots **X138**, **X139** and **X140** (motor control) are disconnected (if present).
- The bus cable to A13 **X137** and option **X152** is disconnected (if present).



Instruction - first attempt - reduced hardware configuration

1. Disconnect the edge connectors **X76**, **X131** and **X133**.
 - See: Description of reduced hardware configuration [► 6]
2. Try starting the unit.

Instruction - if the unit starts

This means that the cause is at one of the connections **X76**, **X131** or **X133**.

1. Now reconnect one of the edge connectors **X76** or **X131** or **X133**.
2. Repeat the procedures until you have plugged in the edge connector that stops the unit from starting.
 - > This connection or component is the cause of the starting problem.
 - > Check the faulty connection, cable or component to which this connector leads.
 - > For more detailed troubleshooting, use the following document:
Troubleshooting - fault trees iVario 2-XS & iVario Pro 2-S, L, XL
S_X_Black display: Unit cannot be switched on/off - iVario

Instruction - if the unit does not start

1. Try the second attempt described below.

Instruction - second attempt - minimum hardware configuration

- ✓ The edge connectors **X76**, **X131** and **X133** from the first attempt have been disconnected.
1. Disconnect the other edge connectors and connections.
 - See: Description of minimum hardware configuration [► 7]
 2. Repeat the procedures from the first attempt.
 3. If necessary, repeat the procedures until you have analysed the cause of the connector causing the fault.
- >> If the unit cannot be started after all attempts, contact RATIONAL Technical Services to define further measures.