

# MOUNTING AND OPERATING INSTRUCTIONS



## EB 6611-2 EN

Translation of original instructions



## TROVIS 6611-2 Control and Automation Unit

Firmware version 3.91



Edition December 2022

## Note on these mounting and operating instructions

These mounting and operating instructions assist you in mounting and operating the device safely. The instructions are binding for handling SAMSON devices. The images shown in these instructions are for illustration purposes only. The actual product may vary.

- For the safe and proper use of these instructions, read them carefully and keep them for later reference.
- If you have any questions about these instructions, contact SAMSON's After-sales Service (aftersaleservice@samsongroup.com).



Documents relating to the device, such as the mounting and operating instructions, are available on our website at [www.samsongroup.com](http://www.samsongroup.com) > **DOWNLOADS > Documentation.**

## Definition of signal words

### **DANGER**

*Hazardous situations which, if not avoided, will result in death or serious injury*

### **WARNING**

*Hazardous situations which, if not avoided, could result in death or serious injury*

### **NOTICE**

*Property damage message or malfunction*

### **Note**

*Additional information*

### **Tip**

*Recommended action*

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# 1 Safety instructions and measures

## Intended use

The TROVIS 6611-2 Control and Automation Unit is freely programmable and allows autonomous operation and management of 32 I/O modules. It has an integrated color touch screen for visualization.

To allow the control and automation unit to access the I/O modules in the required manner, the I/O modules must be mapped logically as a project in the unit. For this purpose, SAMSON provides ready-made applications. Alternatively, a project can be programmed using the SAMSON graphical project management tool (logic circuits, menu navigation, visualization and start-up).

The control and automation unit as well as the I/O modules are designed to operate under exactly defined conditions (e.g. power supply, ambient conditions). Therefore, operators must ensure that the unit is only used in applications where the operating conditions correspond to the technical data. In case operators intend to use the control and automation unit in applications or conditions other than those specified, contact SAMSON.

SAMSON does not assume any liability for damage resulting from the failure to use the device for its intended purpose or for damage caused by external forces or any other external factors.

➔ Refer to the technical data for limits and fields of application as well as possible uses. See the 'Design and principle of operation' section.

The operator is responsible for the physical and logical project management, if not agreed otherwise.

## Reasonably foreseeable misuse

The control and automation unit is not suitable for the following applications:

- Use outside the limits defined during sizing and by the technical data

Furthermore, the following activities do not comply with the intended use:

- Use of non-original spare parts
- Performing service and repair work not described

## Qualifications of operating personnel

- The unit must be mounted, started up, serviced and repaired by fully trained and qualified personnel only; the accepted industry codes and practices are to be observed.
- The projects must be configured and set by trained and experienced personnel only.

## **Safety instructions and measures**

According to these mounting and operating instructions, trained personnel refers to individuals who are able to judge the work they are assigned to and recognize possible hazards due to their specialized training, their knowledge and experience as well as their knowledge of the applicable standards.

### **Personal protective equipment**

No personal protective equipment is required.

### **Revisions and other modifications**

Revisions, conversions or other modifications of the product are not authorized by SAMSON. They are performed at the user's own risk and may lead to safety hazards, for example. Furthermore, the product may no longer meet the requirements for its intended use.

### **Safety features**

The operation of the unit is password-protected to protect it from unauthorized access. A user role with individual privileges and password is assigned to each user.

### **Warning against residual hazards**

The control and automation unit has direct influence on controlled plant components (e.g. control valves and pumps) over the I/O modules. To avoid personal injury or property damage, plant operators and operating personnel must prevent hazards that could be caused in the plant components by the process medium, the operating pressure, the signal pressure or by moving parts by taking appropriate precautions. Plant operators and operating personnel must observe all hazard statements, warnings and caution notes in the referenced documents.

### **Responsibilities of the operator**

Operators are responsible for proper use and compliance with the safety regulations. Operators are obliged to provide these mounting and operating instructions to the operating personnel and to instruct them in proper operation. Furthermore, operators must ensure that operating personnel or third parties are not exposed to any danger.

### **Responsibilities of operating personnel**

Operating personnel must read and understand these mounting and operating instructions as well as the specified hazard statements, warnings and caution notes. Furthermore, operating personnel must be familiar with the applicable health, safety and accident prevention regulations and comply with them.

### Referenced standards, directives and regulations

The TROVIS 6611-2 Control and Automation Unit with a CE marking fulfills the requirements of the Directives 2014/30/EU and 2011/65/EU.

The declaration of conformity is included in the 'Certificates' section of Mounting and Operating Instructions EB 6611-2.

The TROVIS 6611-2 Control and Automation Unit has been designed for use in low voltage installations.

→ For wiring, maintenance and repair, observe the relevant safety regulations.

### Referenced documentation

The following documents apply in addition to these mounting and operating instructions:

- ▶ AB 6600: System integration guidelines for electrical technicians
- ▶ T 6620-1 for TROVIS 6620-1 I/O Module
- ▶ T 6625 for TROVIS 6625 Input Module
- ▶ T 6630 for TROVIS 6630 AO Module <sup>1)</sup>
- ▶ T 6640 for TROVIS 6640 AI Module <sup>1)</sup>

– Technical documentation for the room panel in use

<sup>1)</sup> Discontinued

## 1.1 Notes on possible severe personal injury

### DANGER

#### **Risk of fatal injury due to electric shock.**

The TROVIS 6611-2 Control and Automation Unit has been designed for use in low voltage installations. Electrical connection of the device involves potential hazards.

- Observe the relevant electrotechnical regulations of the country of use as well as the regulations of the local power suppliers.
- Only allow trained and experienced personnel to perform the work.
- Before electrical connection, disconnect the supply voltage and protect it against unintentional reconnection.
- Only use power interruption devices that can be protected against unintentional reconnection of the power supply.
- Do not open the control and automation unit when the supply voltage is connected.
- Do not remove any housing parts.

## 1.2 Notes on possible property damage

### ! NOTICE

#### **Damage due to water entering the device.**

The front pane of the control and automation unit is protected against vertically falling drops of water (IP 41).

→ Avoid drops, sprays and jets of water.

#### **Manipulation of settings due to unauthorized access.**

The TROVIS 6611-2 Control and Automation Unit supports various communications protocol (e.g. a web server). This allows remote access. To protect it from unauthorized access, the onsite and remote operation of the unit is password-protected:

→ Change the initial administrator password after first start-up.

→ Regularly change all user passwords.

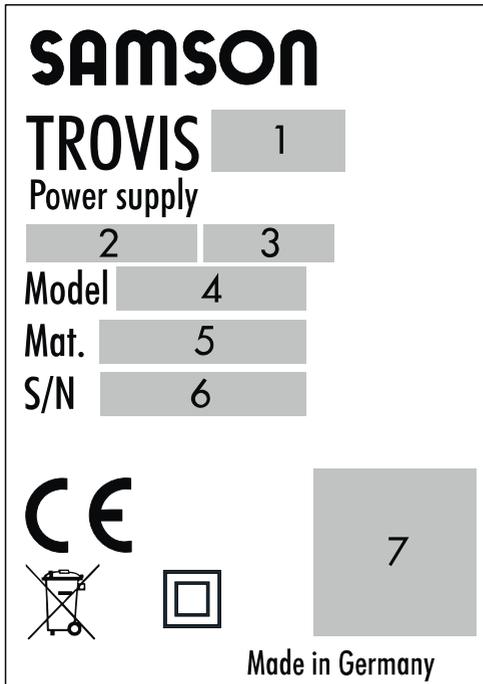
→ Do not pass login data on to unauthorized persons. Keep them in a safe place inaccessible to unauthorized persons.



## 2 Markings on the device

### 2.1 Nameplate

The nameplate shown was up to date at the time of publication of this document. The nameplate on the device may differ from the one shown.



- 1 Type designation
- 2 Supply voltage; power line frequency
- 3 Power consumption
- 4 Model number
- 5 Material no.
- 6 Serial number
- 7 Data Matrix code



### 3 Design and principle of operation

The TROVIS 6611-2 Control and Automation Unit is freely programmable and allows autonomous operation and management of 32 I/O modules (up to 640 physical data points). It has an integrated color touch screen for visualization. The SAMSON Graphical Project Management tool is required to create applications.

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#### **i** Note

*The control and automation unit does not contain any applications in the delivered state.*

*System-specific applications can be ordered from SAMSON.*

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#### **Max. number of units**

Modules

- 32x I/O modules (TROVIS 6620, 6625, 6630 oder 6640) per TROVIS 6611-2
- 32x TROVIS 6611-2 per application (graphical project management tool)

Cable length without repeaters, hubs etc.

- Ethernet 100BASE-T type: LAN
- I/O bus 1200 m
- 24 V AC/DC Max. 1.5 mm<sup>2</sup> strand (12 mm-long wire end ferrule)
- Ethernet Min. Cat 5 cable, shielded (STP)
- I/O bus Jy(St) Y 2 x 2 x 0.8 (12 mm-long wire end ferrule)

### 3.1 Technical data

#### Technical data

<b>Supply</b>	
Supply voltage	24 V AC/DC
Power consumption	8 VA/W
Port	2-pin screw clamp terminal (orange)
Wire cross-section	Up to 1.5 mm <sup>2</sup>
<b>Permissible ambient conditions</b>	
Operating temperature range	0 to 55 °C
Temperature range for transportation and storage	-20 to +70 °C
Relative humidity	5 to 95 %, no dew formation
<b>Electromagnetic compatibility</b>	
Noise emission	According to EN 61000-6-3
Noise immunity	According to EN 61000-6-2
<b>Device safety</b>	
Class of protection	II according to DIN EN 61140
Overvoltage category	II according to DIN EN 60664-1
Degree of contamination	2 according to DIN EN 60664-1
Degree of protection	IP41 according to IEC 60529 (with seal for panel mounting)
<b>Display</b>	
Key figures	3.5" QVGA, resistive touch screen
Resolution	320 x 240 pixel
<b>Installation</b>	
Dimensions	W x H x D including terminals: 147 mm x 96 mm x 50 mm
Mounting	Panel mounting
Panel cutout	W x H: 138 mm x 92 mm (recommended installation depth: min. 80 mm)
Weight	Approx. 0.4 kg

Interfaces	
Serial interfaces	1x RS-485 Modbus RTU (3-pin screw clamp terminal) 1x RS-485 I/O bus (3-pin screw clamp terminal), e.g. for TROVIS 6620
Ethernet	1x RJ-45 10/100 Mbit, BACnet IP (AMEV Profile AS-A, AS-B)
USB	2x USB 2.0 A, (FAT32)
Supported protocols	Modbus RTU, Modbus TCP, BACnet IP (AMEV Profile AS-A, AS-B), OPC UA, MQTT
Conformity	CE

### 3.2 Dimensions

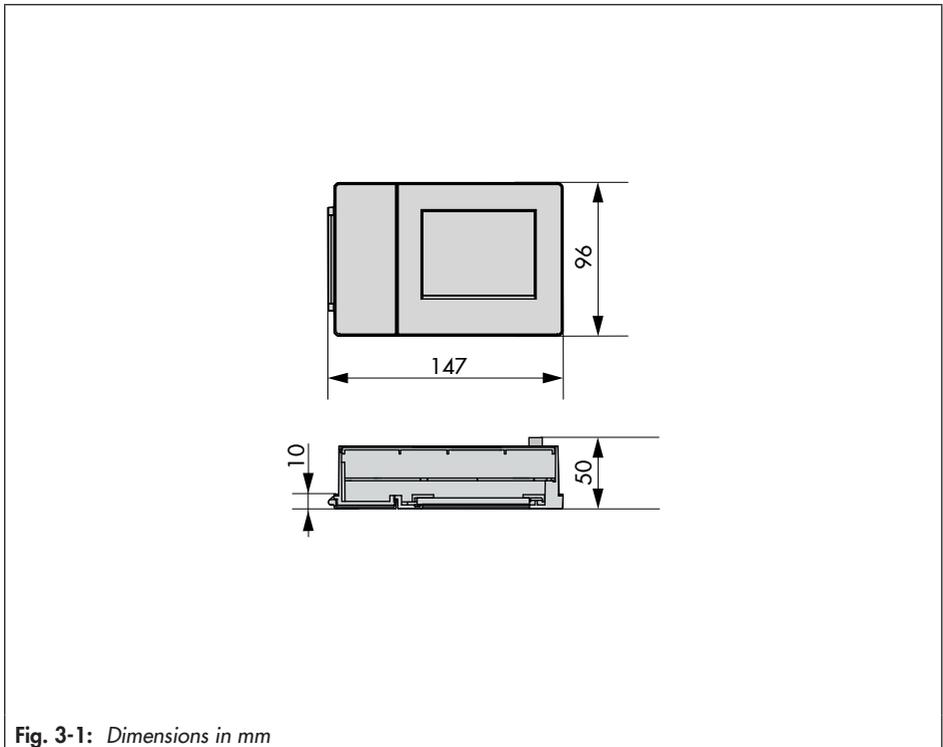


Fig. 3-1: Dimensions in mm



## 4 Shipment and on-site transport

The work described in this section is only to be performed by personnel appropriately qualified to carry out such tasks.

### 4.1 Accepting the delivered goods

After receiving the shipment, proceed as follows:

1. Compare the shipment received with the delivery note.
2. Check the shipment for transportation damage. Report any damage to SAMSON and the forwarding agent (refer to delivery note).

### 4.2 Removing the packaging from the control and automation unit

#### **NOTICE**

**Risk of device damage due to foreign particles entering it.**

→ Do not remove the packaging and protective films until immediately before mounting.

1. Remove the packaging from the device.
2. Check scope of delivery (see Fig. 4-1).

3. Dispose of the packaging in accordance with the valid regulations.

1x TROVIS 6611-2 Control and Automation Unit  
 1x Document IP 6611-2  
 (Important Product Information)

Fig. 4-1: Scope of delivery

### 4.3 Transporting the control and automation unit

- Protect the device against external influences (e.g. impact).
- Protect the device against moisture and dirt.
- Observe the permissible transportation temperature of  $-20$  to  $+70$  °C.

### 4.4 Storing the control and automation unit

#### **NOTICE**

**Risk of damage to the unit due to improper storage.**

- Observe the storage instructions.
- Avoid long storage times.
- Contact SAMSON in case of different storage conditions or longer storage times.

#### **Note**

We recommend to regularly check the unit and the prevailing storage conditions during long storage times.

## Shipment and on-site transport

### Storage instructions

- Protect the device against external influences (e.g. impact).
- Protect the device against moisture and dirt.
- Make sure that the ambient air is free of acids or other corrosive media.
- Observe the permissible storage temperature from  $-20$  to  $+70$  °C.
- Do not place any objects on the device.

## 5 Installation

The work described in this section is only to be performed by personnel appropriately qualified to carry out such tasks.

### 5.1 Installation conditions

#### Work position

The work position for the unit is the front view onto the display seen from the position of operating personnel.

Operators must ensure that, after installation of the unit, the operating personnel can perform all necessary work safely and easily access the unit from the work position.

### 5.2 Preparation for installation

Before installation, make sure the following conditions are met:

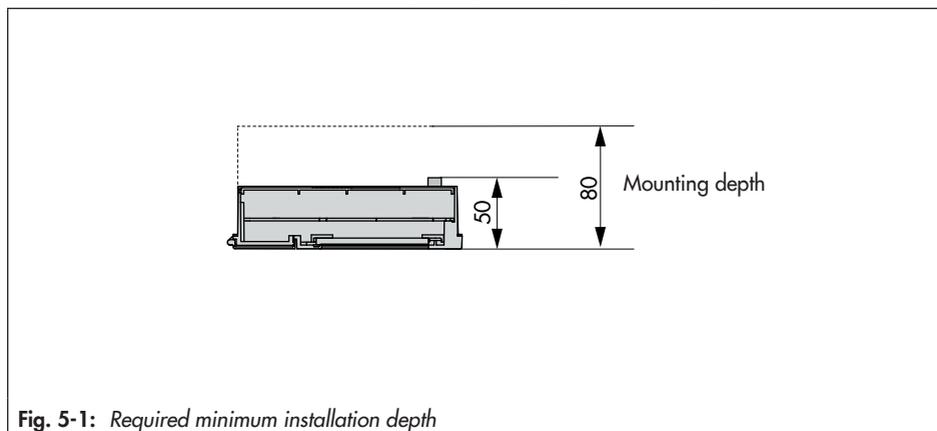
The control and automation unit is not damaged.

Proceed as follows:

→ Lay out the necessary material and tools to have them ready during installation work.

### 5.3 Mounting the control and automation unit

The control and automation unit is mainly designed for panel mounting.



## Installation

- Make the panel cut-out.
  - Panel cut-out (W x H): 138 x 92 mm
- Push the unit from the front through the panel cut-out.
- Slide the supplied screw rails into the guide rails:  
**the clamps on the screw rails must face towards the control panel.**
- Fasten the screw rails with the supplied screws:  
**the tips of the screws must point towards the control panel.**
- Connect the wiring (see section 5.4).

## 5.4 Electrical connection

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### **⚠ DANGER**

#### ***Risk of fatal injury due to electric shock.***

*The control and automation unit has been designed for use in low voltage installations. Electrical connection of the device involves potential hazards.*

- *Observe the relevant electrotechnical regulations of the country of use as well as the regulations of the local power suppliers.*
  - *Only allow trained and experienced personnel to perform the work.*
  - *Before electrical connection, disconnect the supply voltage and protect it against unintentional reconnection.*
  - *Only use power interruption devices that can be protected against unintentional reconnection of the power supply.*
- 

#### **Notes on electric wiring**

- Use a stranded wire with a 1.5 mm<sup>2</sup> wire cross-section for the supply line.
- Use at least a shielded Cat 5 cable (STP) for the Ethernet connection.
- Inductances in the control cabinet, e.g. contactor coils, must be equipped with suitable interference suppressors (RC elements).
- Control cabinet elements with high field strength, e.g. transformers or frequency converters, must be shielded with separators providing a good connection to the grounding conductor (PE).

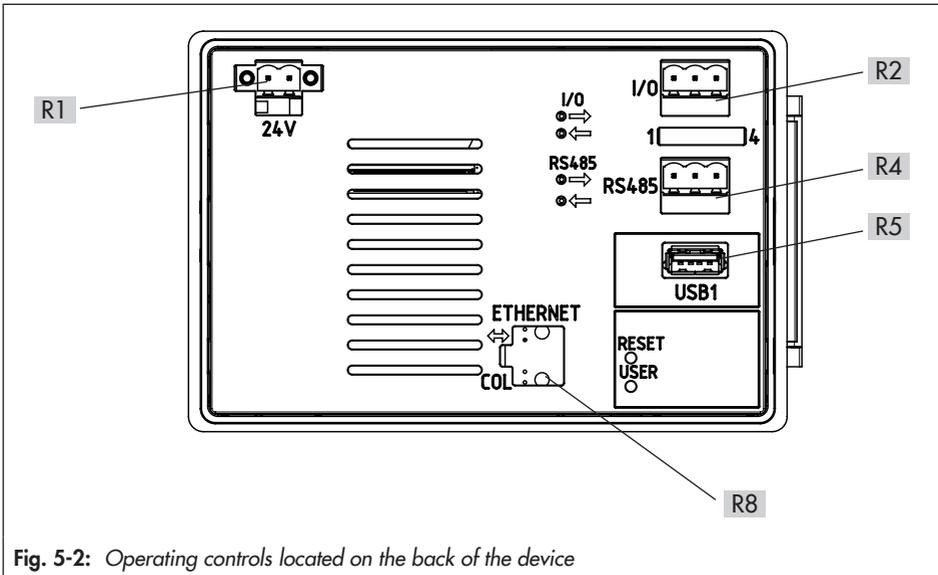
#### **Surge protection**

- If signal lines are installed outside buildings or over large distances, make sure appropriate surge or overvoltage protection measures are taken. Such measures are indispensable for bus lines.
- The shield of signal lines installed outside buildings must have current conducting capacity and must be grounded on both sides.
- Install surge diverters at the entry of the control cabinet.

#### **Electrical connection**

The terminals for the supply voltage have reverse polarity protection.

- Connect the control and automation unit to the supply voltage.



**Fig. 5-2:** Operating controls located on the back of the device

**R1** Connection for supply voltage

**R2** Connection for I/O bus (physical inputs on the input/output modules)

Distributed I/O modules are required to connect the physical input and outputs. The two terminals are labeled "IA" and "IB" and must be wired consistently in exactly the same way.

Maximum cable core length: 1200 m

A maximum of 32 I/O modules (e.g. TROVIS 6620, 6625, 6630 <sup>1)</sup> or 6640 <sup>1)</sup>) can be connected to one TROVIS 6611-2 Control and Automation Unit.

**R4** Connection for Modbus (RS-485 2W)

**R5** USB port

Functions:

- Load and save data
- Memory extension for historical data

USB flash drive requirements: 2.0 with FAT32

**R8** Ethernet connection

<sup>1)</sup> Discontinued

## 6 Operation

The operating controls are located on the front panel as well as the back of the unit.

### 6.1 Operating controls at the front



#### Touch screen (F1)

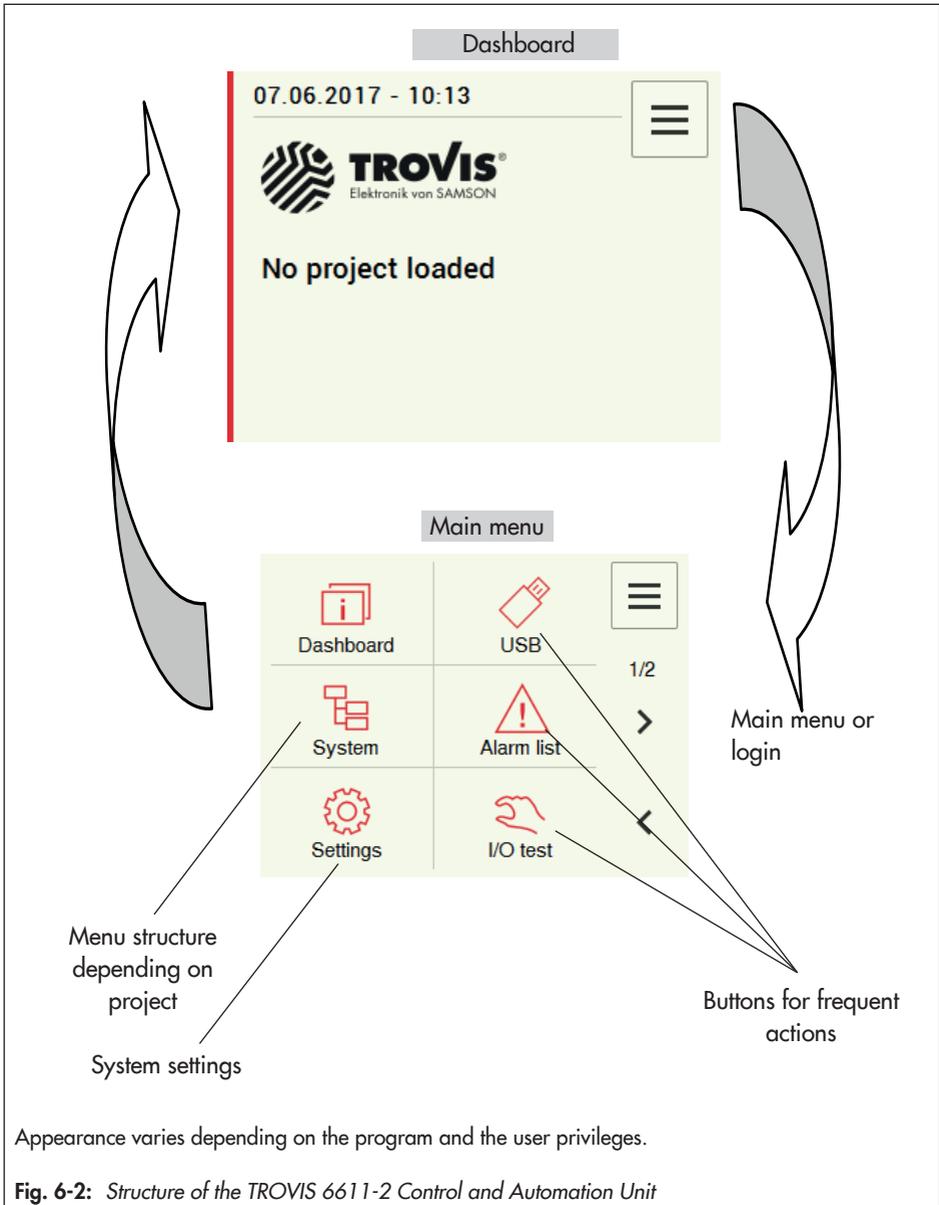
The touch screen is the main operating element.



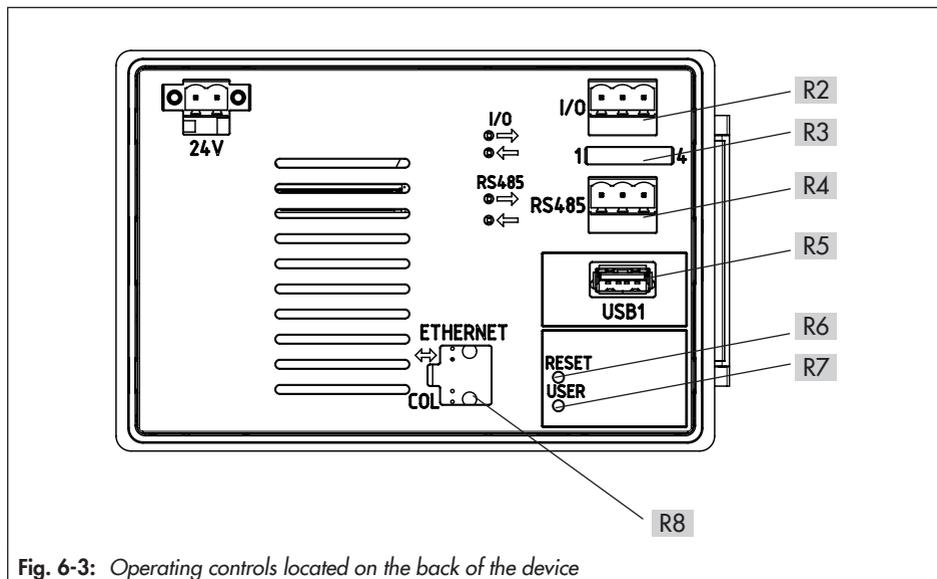
Tap the menu button in the top right-hand corner of the screen to open various levels. Depending on the level, various functions can be executed by tapping the displayed buttons.

#### USB port (F2)

The USB port is accessible after opening the lid. Data can be transferred from a USB flash drive inserted into the port to the unit and vice versa.



## 6.2 Back of device



**Fig. 6-3:** Operating controls located on the back of the device

- R2** Connection for I/O bus (physical inputs on the input/output modules)  
The two terminals are labeled "IA" and "IB".
- R3** Jumper for RS-485 configuration
- R4** Connection for Modbus (RS-485 2W)
- R5** USB port  
Functions:
  - Load and save data
  - Memory extension for historical data
 USB flash drive requirements: 2.0 with FAT32
- R6** Reset key for restart
- R7** User key
- R8** Ethernet connection



## 7 Start-up and configuration

→ Connect a supply voltage to the control and automation unit.

### 7.1 Start-up

#### 7.1.1 User login

- Select "Login" in the menu (☰ button).
- Enter your user name and password ("admin").

---

**!** NOTICE

*Insufficient security due to generally accessible password.*

→ *Change the administrator password ("admin") after first login.*

---

#### 7.1.2 Loading a project

- Insert the USB flash drive containing the project into the front USB port.
- Go to the main menu (☰ button).
- Select "Load project" in "USB" and select the required project.

---

**i** Note

Select "USB" to perform further actions:

- Save project
  - Update the firmware
- 

#### 7.1.3 Setting the system time

- Go to the main menu (☰ button).
- Select "Date and time" in "Settings".
- Change the time and date.
- Select "Apply" in the menu (☰ button) to save changes.

### 7.1.4 Network settings

The unit has an integrated web server (TROVIS MOBILE), which can be simply accessed over the network and browser through the IP address. It must have the same address as the end device (smartphone, notebook, tablet computer, computer etc.) and an active HTTPS.

TROVIS MOBILE is designed for modern web browsers, e.g. Mozilla Firefox in version V.45 and higher. Access to the Internet requires port forwarding using a router (e.g. VPN) to be set up on site.

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#### **i** Note

*The LAN setting is set to DHCP in the default setting. In this setting, it is assumed that the TROVIS 6611-2 Control and Automation Unit is assigned to an IP address, e.g. belonging to a router. However, the IP address is not assigned, for example when the TROVIS 6611-2 unit is directly connected to a laptop using a network cable. In this case, DHCP must be deactivated to allow the preset static IP address to be used.*

*The currently used and active IP address can be found at [Main menu > Device information > Network: eth0]. This information is available regardless of the user role.*

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- Go to the main menu (☰ button).
- Select "Network settings" in "Settings".
- Set the "LAN port" to ON.
- Select "Back one level" in the menu (☰ button) to exit the level.
- Set all other parameters in "LAN settings":
  - DHCP: ON (= default)
  - IP address: 172.30.66.11 (= default)
  - Subnet mask: 255.255.0.0 (= default)
  - Host name: TROVIS-6111-2-xxx (xxx = device-specific MAC address)
  - DNS server
  - NTP server
- If necessary, select "Services" in "Network" and set the user options:
  - Activate FTPS for use with graphical project management (default = OFF)
  - Activate HTTPS for the use of the integrated TROVIS-MOBILE web server (default = OFF)
  - SSH for console access using the "root" user role

---

**NOTICE**

**Impaired device function and loss of warranty through the improper use of the "root" user role.**

- Only activate SSH for troubleshooting and administration activities performed by trained personnel.
  - Do not leave the SSH constantly activated.
  - Assign a "root" password to protect its access.
- 

→ Select "Apply" in the menu (☰ button) to save changes.

### 7.1.5 Assigning modules

- Go to the main menu (☰ button).
  - Select "Module assignment" in "Settings".  
The logical modules are listed.
  - Select one physical module for each logical module one after the other.
  - The LEDs of a physical module blink after it has been selected. Confirm selection by checking the box (top right) or repeat selection procedure until the correct physical module has been selected.
  - Select "Apply" in the menu (☰ button) to save changes.
- 

**i Note**

We recommend SAMSON entering a restore point ("Restore system" command in "Settings") after assigning the module. This ensures the settings are saved and can be restored later.

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### 7.1.6 Calibrating the touch screen

- Go to the main menu (☰ button).
- Select "Touch screen calibration" in "Settings". Select "Start touch screen calibration".
- Tap the crosshair with a pointed item each time it appears on the screen.

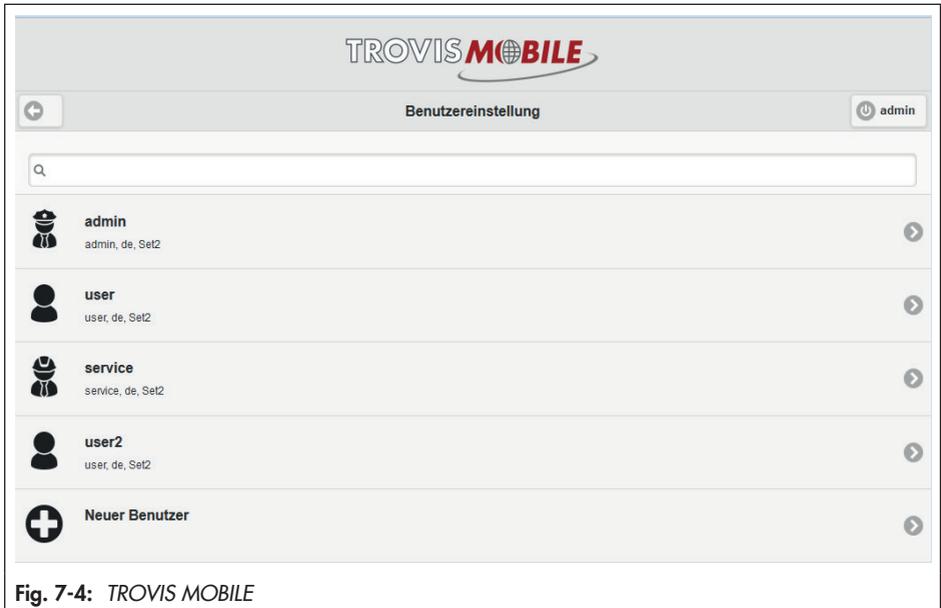
### 7.1.7 Quick check

"I/O test" allows the unit's ability to function to be checked. It allows you to check all the connected modules and the physical inputs and outputs.

- ➔ After changing to the main menu (☰ button), select "I/O test".
- ➔ Manually switch the outputs one after the other to check that they function.

**Table 7-1:** *User roles*

User	Load project	Set system time	Set network	Assign modules	Calibrate touch screen	Operate system on site	Reset unit	Create new user	Update the firmware
Default user	NO	NO	NO	NO	NO	YES	NO	NO	NO
User	NO	YES	NO	NO	NO	YES	NO	NO	NO
Service	YES	YES	YES	YES	YES	YES	YES	NO	NO
Administrator	YES	YES	YES	YES	YES	YES	YES	YES	YES



### 7.2 Configuration

#### R3 Jumper for RS-485 configuration

The jumpers are not set in the delivered state. Refer to the following table for the required setting.

1	2	3	4
Bus termination fur I/O bus	Bus bias voltage for Modbus (jumper 3 must be closed)	Bus bias voltage for Modbus (jumper 2 must be closed)	Bus termination fur Modbus
Closed = Active	Closed = Active	Closed = Active	Closed = Active
Open = Not active	Open = Not active	Open = Not active	Open = Not active

Close jumper 1 if TROVIS 6611-2 is at the end of the I/O bus line.

Close jumpers 2 and 3 to activate the Modbus bias voltage (if TROVIS 6611-2 is used as a Modbus RTU master).

Close jumper 4 if TROVIS 6611-2 is at the end of the bus.

#### R4 Connection for Modbus (RS-485 2W)

The TROVIS 6611-2 Control and Automation Unit supports the Modbus RTU fieldbus protocol with two-wire system. The corresponding jumpers must be set for the terminating resistors or bias voltage. Bus properties, such as master or slave operation, data bits, parity and stop bits must be configured in the SAMSON Graphical Project Management Tool software. The two terminals are labeled "RA" and "RB" and must be wired consistently in exactly the same way.

#### R8 Ethernet connection

Data transmission rate: 100 Mbit/s

Host name: Fallback IP-Adresse 172.30.66.11

The Ethernet connection can be configured and activated on site at the device. The services (SSH, FTPES, HTTPS, AVAHI (see section 7.1.4)) are deactivated in the delivered state. However, the TROVIS 6611-2 Control and Automation Unit in the default state obtains the IP addresses over DHCP.

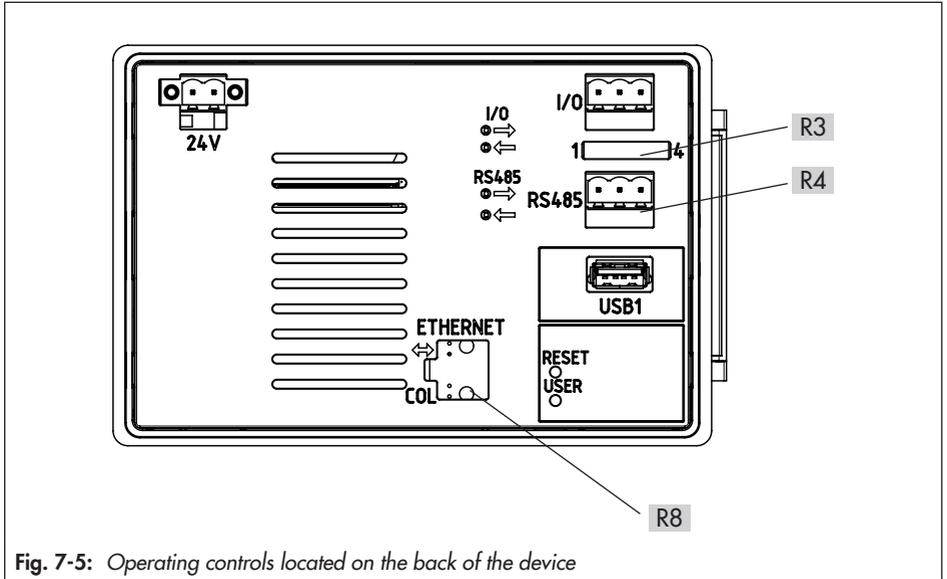


Fig. 7-5: Operating controls located on the back of the device



## 8 Operation

### 8.1 User administration

User administration is performed over the TROVIS MOBILE web server (see the 'Start-up and configuration' section).

Four different user roles can be assigned to users (see the 'Start-up and configuration' section).

### 8.2 Operating the system

The system is operated in "System". It depends on the loaded project.

→ After changing to the main menu (☰ button), select "System".

### 8.3 Resetting the unit

#### Reset to first start-up

By resetting to first start-up, all system parameters are set to the state upon delivery of the project.

→ Press the reset key on the back of the device.

#### Restore system

The "Restore system" command in "Settings" allows the system to be restored to a certain point. Once set, settings can be reset to this point again at any time.

→ Go to the main menu (☰ button).

→ Select "Restore system" in "Settings".

#### Resetting to default settings

Resetting to default settings causes all settings made during start-up (project, system time, network, module assignment) to be deleted.

→ Save data to a USB flash drive before resetting to default settings.

→ Press reset and user keys on the back of the device simultaneously. Hold the user key pressed until the reading indicates a reset to default settings.

### 8.4 Setting up a WiFi hotspot

External hardware (e.g. computer, laptop, smartphone, tablet computer) can be used to establish a WiFi connection to the TROVIS 6611-2 Control and Automation Unit. The unit's released services (e.g. web server, connection to the graphical project management tool) can be accessed over a WiFi hotspot. It can only be established using a WiFi flash drive <sup>1)</sup>, within wireless coverage and when the end devices have been connected properly to the WiFi provided by the WiFi flash drive.

---

#### **i** Note

<sup>1)</sup> WiFi flash drive must support the approved chips with suitable drivers, e.g. Edimax EW-7811Un.

---

## 9 Malfunctions

→ Troubleshooting (see Table 9-1).

### **i** Note

Contact SAMSON's After-sales Service for malfunctions not listed in the table.

**Table 9-1:** Troubleshooting

Error	Possible reasons	Recommended action
Screen remains black.	No or incorrect supply voltage connected.	→ Check the supply voltage and connections (see the 'Installation' section).
Readings on screen not legible	No or incorrectly set reading area of the screen.	→ Recalibrate screen (see the 'Start-up and configuration' section).
System components do not perform the required actions.	Wrong project loaded or project deleted.	→ Reload project (see the 'Start-up and configuration' section).
	Modules incorrectly/not assigned.	→ Perform quick check (see the 'Installation' section) and reassign modules, if necessary (see the 'Start-up and configuration' section).
TROVIS MOBILE web server cannot be used.	Network settings are incorrect.	→ Check settings and change them, if necessary (see the 'Start-up and configuration' section).

### 9.1 Emergency action

Plant operators are responsible for emergency action to be taken in the plant.

---



**Tip**

*Emergency action in the event of failure is described in the associated documentation.*

---

## 10 Servicing

The work described in this section is only to be performed by personnel appropriately qualified to carry out such tasks.

---

### **i** Note

*The control and automation unit was checked by SAMSON before it left the factory.*

*– The product warranty becomes void if service or repair work not described in these instructions is performed without prior agreement by SAMSON's After-sales Service.*

*– Only use original spare parts by SAMSON, which comply with the original specifications.*

---

### 10.1 Updating the firmware

The unit's firmware needs to be updated after certain applications and functions have been revised. The firmware is updated using a USB flash drive <sup>1)</sup> containing the latest firmware.

<sup>1)</sup> The USB flash drive must have the FAT32 format, assigned the name "TROVIS 6611" and have the same folder structure.

This procedure requires administrator privileges.

- ➔ Insert the USB flash drive containing the firmware into the front USB port.
- ➔ Go to the main menu (☰ button).
- ➔ Select "Update firmware" in "USB" and select the required project.



## 11 Decommissioning

The work described in this section is only to be performed by personnel appropriately qualified to carry out such tasks.

---

### DANGER

***Risk of fatal injury due to electric shock.***

- *Only allow trained and experienced personnel to perform the work.*
  - *Before disconnecting live wires, switch off the supply voltage and protect it against unintentional reconnection.*
- 
- Disconnect the supply voltage and protect it against unintentional reconnection.



## 12 Removal

The work described in this section is only to be performed by personnel appropriately qualified to carry out such tasks.

---

### **⚠ DANGER**

***Risk of fatal injury due to electric shock.***

- *Only allow trained and experienced personnel to perform the work.*
  - *Before disconnecting live wires, switch off the supply voltage and protect it against unintentional reconnection.*
- 
- Undo the screws on the guide rails and remove the unit.
  - Remove the wires from the plug-on screw terminals.



## 13 Repairs

A defective control and automation unit must be repaired or replaced.

---

### NOTICE

***Risk of damage due to incorrect service or repair work.***

- *Do not perform any repair work on your own.*
  - *Contact SAMSON's After-sales Service for service and repair work.*
- 

### 13.1 Returning devices to SAMSON

Defective control and automation units can be returned to SAMSON for repair.

Proceed as follows to return devices to SAMSON:

1. Put the control and automation unit out of operation (see the 'Decommissioning' section).
2. Remove the control and automation unit (see the 'Removal' section).
3. Proceed as described on the Returning goods page of our website
  - ▶ [www.samsongroup.com](http://www.samsongroup.com) > Service > After-sales Service > Returning goods



## 14 Disposal



SAMSON is a producer registered at the following European institution ► <https://www.ewrn.org/national-registers/national-registers>.  
WEEE reg. no.:  
DE 62194439/FR 025665

- Observe local, national and international refuse regulations.
- Do not dispose of components and hazardous substances together with your other household waste.

---

### **i** Note

*We can provide you with a recycling passport according to PAS 1049 on request. Simply e-mail us at [offersaleservice@samsongroup.com](mailto:offersaleservice@samsongroup.com) giving details of your company address.*

---

### Tip

*On request, we can appoint a service provider to dismantle and recycle the product as part of a distributor take-back scheme.*

---



## 15 Certificates

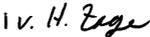
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SMART IN FLOW CONTROL.		
<b>SAMSON</b>		
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<b>Bedien- und Automationsseinheit TROVIS 6611-2 / TROVIS 6611-2 Control and Automation Unit Typ/Type/Type TROVIS 6611-2</b>		
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EMC 2014/30/EU	EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2010, EN 61326-1:2013	
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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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## 16 Annex

### 16.1 Accessories

Designation	Order no./configuration ID
Terminal and installation set (included in the scope of delivery)	Order no. 1402-1561
TROVIS 6620-1 I/O Module	Configuration ID: 4829008
TROVIS 6625 Input Module <sup>1)</sup>	Configuration ID: 2649861
Room panel depending on application	On request
TROVIS 6690 Graphical Project Management Tool (demo version)	Configuration ID: 3004922
TROVIS 6690 Graphical Project Management Tool (1 AS version)	Configuration ID: 3004921
TROVIS 6690 Graphical Project Management Tool (3 AS version)	Configuration ID: 3004920
TROVIS 6690 Graphical Project Management Tool (full version)	Configuration ID: 2039168

<sup>1)</sup> Only with 24 V AC supply voltage

## 16.2 After-sales service

Contact our after-sales service for support concerning service or repair work or when malfunctions or defects arise.

### E-mail contact

You can reach our after-sales service at ► [aftersaleservice@samsongroup.com](mailto:aftersaleservice@samsongroup.com).

### Addresses of SAMSON AG and its subsidiaries

The addresses of SAMSON, its subsidiaries, representatives and service facilities worldwide can be found on our website (► [www.samsongroup.com](http://www.samsongroup.com)) or in all SAMSON product catalogs.

### Required specifications

Please submit the following details:

- Order number and position number in the order
- Type designation
- Device version
- Serial number
- Material no.
- Serial number
- Firmware version







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