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#### Fronius RCU 5000I

# FRONIUS RCU 5000l Remote Control Interface Panel

Model: RCU 5000I | Brand: Fronius

## 1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Fronius RCU 5000I Remote Control Interface Panel. The RCU 5000I is designed for industrial applications, providing a robust and reliable interface for controlling and monitoring compatible Fronius equipment. This unit operates on a 24V-DC power supply.

Please read this manual thoroughly before operating the device and keep it for future reference. Adherence to these instructions will ensure optimal performance and longevity of your RCU 5000I.

## 2. SAFETY INFORMATION

## **Important Safety Instructions:**

- Always disconnect power before performing any installation, maintenance, or cleaning procedures.
- Ensure the device is connected to a stable 24V-DC power source as specified. Incorrect voltage can damage the unit.
- Do not operate the device if it appears damaged or if any cables are frayed or broken.
- Only qualified personnel should perform installation and service.
- Protect the unit from moisture, extreme temperatures, and direct sunlight.
- Observe all local and national electrical codes and safety regulations.

Failure to follow these safety instructions could result in injury, damage to the equipment, or voiding of the warranty.

## 3. SETUP AND INSTALLATION

Follow these steps for proper setup and installation of your RCU 5000I unit.

## 3.1 Unpacking and Inspection

Carefully remove the RCU 5000I from its packaging. Inspect the unit for any signs of shipping damage. If damage is found, contact your supplier immediately.



Figure 1: Front view of the Fronius RCU 5000I Remote Control Interface Panel with its attached cable. The panel features a



Figure 2: An angled perspective of the RCU 5000l, highlighting its robust casing and the coiled connection cable. This view provides a better sense of the unit's physical dimensions and industrial design.

# 3.2 Connecting the Unit

The RCU 5000I requires a 24V-DC power supply and connection to compatible Fronius equipment via its integrated cable.

- 1. Ensure the power source is off before making any connections.
- 2. Connect the integrated cable's connector to the appropriate port on your Fronius welding system or industrial equipment. Ensure a secure and firm connection.
- 3. Verify the power supply meets the 24V-DC requirement.
- 4. Once all connections are secure, power on the connected equipment and the RCU 5000I will initialize.



Figure 3: Rear view of the RCU 5000I, showing the back casing and the point where the main cable exits the unit. This view also provides a glimpse of the product label.



Figure 4: A detailed close-up of the product label located on the RCU 50001. This label displays critical information such as the model type ("Fernbedienung RCU5000i Univers"), Article Number (Art.No. 4,046,088,800), Serial Number (Ser.No. 18030339), power requirements (U1 24V), IP rating (IP23), and compliance markings (CE, CSA, FC). It also indicates the inclusion of an RFID-Module, Type: RF5000i.



Figure 5: A barcode label associated with the Fronius RF5000I, indicating a custom identifier or part number "D797495" and weight information. This label is often used for inventory and tracking purposes.

The unit's custom identifier is D797495, as indicated on the product's barcode label.

## 4. OPERATING INSTRUCTIONS

The RCU 5000I features a user-friendly interface with a display screen and tactile buttons for navigation and control.

## 4.1 Basic Navigation

- The central display shows operational parameters, menus, and status messages.
- Use the arrow buttons (up, down, left, right) to navigate through menus and adjust values.
- Press the OK button to confirm selections or enter sub-menus.
- The **F1-F5 function buttons** provide quick access to frequently used functions or parameters, as indicated by on-screen labels.

# **4.2 Typical Operations**

Depending on the connected Fronius equipment, the RCU 5000I can be used for:

- Adjusting welding parameters (e.g., current, voltage, wire feed speed).
- Selecting welding programs or modes.
- Monitoring real-time process data.
- · Accessing system diagnostics and error codes.
- · Saving and recalling user-defined settings.

Refer to the specific manual of your connected Fronius equipment for detailed instructions on parameter settings and advanced functions accessible via the RCU 5000I.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your RCU 5000I.

## 5.1 Cleaning

- Before cleaning, ensure the unit is disconnected from all power sources.
- Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners, solvents, or excessive moisture.
- Ensure no liquid enters the unit through openings or connectors.

# 5.2 Inspection

- Periodically inspect the integrated cable for any signs of wear, cuts, or damage.
- Check the connector for bent pins or corrosion.
- Ensure all external components are secure and undamaged.

# 5.3 Storage

When not in use for extended periods, store the RCU 5000I in a clean, dry environment, protected from dust, moisture, and extreme temperatures.

## 6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your RCU 5000I.

Problem	Possible Cause	Solution
Unit does not power on.	No 24V-DC power supply; loose cable connection; faulty unit.	Verify 24V-DC power supply is active. Check cable connection to the main equipment. If problem persists, contact support.
Display is blank or shows error.	Communication error with main equipment; internal fault.	Ensure main equipment is powered on and functioning correctly.  Re-seat the connection cable. Consult the main equipment's manual for specific error codes.
Buttons are unresponsive.	Unit frozen; physical damage to buttons.	Power cycle the main equipment and the RCU 5000I. Inspect buttons for physical damage.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Fronius technical support.

# 7. SPECIFICATIONS

Attribute	Value
Model	RCU 5000I
Brand	Fronius
Power Supply	24V-DC

Attribute	Value
Product Dimensions	13.5 x 10 x 7 inches
Weight	6.05 Pounds
Manufacturer	FRONIUS
ASIN	B08PMGF575
RFID Module	Included (Type: RF5000i)
IP Rating	IP23

# 8. WARRANTY AND SUPPORT

Fronius products are manufactured to high-quality standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Fronius website.

For technical support, service, or spare parts, please contact your authorized Fronius dealer or the Fronius customer service department. When contacting support, please have your product's model number (RCU 5000I) and serial number (found on the product label, see Figure 4) ready.

You can also reference the custom identifier D797495 for product identification.

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#### Related Documents - RCU 50001

Operating Instructions

#### Fronius Datamanager Bedienungsanleitung

Diese Anleitung bietet detaillierte Informationen zur Installation, Konfiguration und Bedienung des Fronius Datamanager, einem netzwerkfähigen Datenlogger für Photovoltaikanlagen. Sie deckt allgemeine Informationen, Systemüberwachung, Netzwerkeinstellungen und Fehlerbehebung ab.





#### Fronius Symo GEN24 Quick Start Guide

Quick start guide for the Fronius Symo GEN24 inverter, covering installation, connection, and commissioning. Includes technical specifications and safety warnings.

