Finder 12.A4.8.230.0010

Finder 12.A4.8.230.0010 NFC Weekly Time Clock User Manual

Model: 12.A4.8.230.0010 | Brand: Finder

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, programming, and operation of the Finder 12.A4.8.230.0010 NFC Weekly Time Clock. This electronic astronomical time switch features a weekly program, an analog output, and can be programmed via a joystick or an NFC-enabled smartphone using the Finder Toolbox app.

2. SAFETY INFORMATION

Please read these safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- Installation must be performed by a qualified electrician in accordance with local wiring regulations.
- Ensure the power supply is disconnected before any installation or maintenance work.
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- The device is designed for indoor use only.

3. PRODUCT OVERVIEW

The Finder 12.A4.8.230.0010 is an electronic time switch designed for DIN rail mounting. It offers precise time control with a weekly program and astronomical function.

Figure 1: Front view of the Finder 12.A4.8.230.0010 Time Clock, showing the LCD display, joystick, and NFC symbol.

Key Features:

- Weekly program for flexible scheduling.
- 1 analog output: 0-10 V or PWM.
- 1 changeover contact for 16 A / 250 V AC (AC1).
- Supply voltage: 110-230 V AC/DC.
- LCD display for clear information.
- Programming via joystick or NFC-enabled smartphone with Finder Toolbox app (Android and iOS).
- Astronomical time control: automatic switching at sunrise and sunset based on postcode or coordinates.
- Adjustable time offset for sunrise/sunset.

4. SETUP AND INSTALLATION

This device is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Power Disconnection:** Ensure the main power supply to the installation area is completely disconnected before proceeding.

2. **Mounting:** Mount the time switch securely onto a standard DIN rail.

3. **Wiring:** Connect the power supply (110-230 V AC/DC) to terminals A1 and A2. Connect the load to the changeover contact terminals (NO, NC, COM) and the analog output (W, O, Y) as required. Refer to the wiring diagram below.

Figure 2: Detailed view of the wiring terminals for power input (A1, A2), relay output (NO, NC, COM), and analog output (W, O, Y).

Note: The device features safe separation between the power supply and contacts.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

Once wired, restore power. The LCD display will illuminate. You may need to set the current date and time if it's the first

use or after a prolonged power outage.

5.2 Programming via Joystick

The integrated joystick allows for direct programming on the device:

- **Navigation:** Use the joystick to move through menu options (up, down, left, right).
- **Selection/Confirmation:** Press the joystick inwards to select an option or confirm a setting.
- Follow the on-screen prompts to set the current time, date, weekly program, and astronomical functions.

5.3 Programming via NFC (Finder Toolbox App)

For maximum flexibility, program the time switch using an NFC-enabled smartphone and the Finder Toolbox app:

1. **Download App:** Download the "Finder Toolbox" app from the Google Play Store (Android) or Apple App Store (iOS).
2. **Create/Load Program:** Open the app and create a new program or load an existing one. The app allows for detailed configuration of weekly schedules, astronomical settings, and special functions.
3. **Transfer Data:** To transfer the program, hold your smartphone close to the NFC symbol on the time switch. The app will guide you through the data transfer process.
4. **Read Program:** You can also read an existing program from the time switch to your smartphone for editing or backup.

5.4 Astronomical Time Control

The device can automatically switch based on sunrise and sunset times:

- **Location Setting:** Set your location by entering a postcode or geographical coordinates in the programming menu (via joystick or app).
- **Offset:** You can set a selectable time offset for both sunrise and sunset times to adjust switching points.
- **Astro ON/OFF:** Configure specific ON/OFF times during the astronomical ON period if needed.

6. MAINTENANCE

The Finder 12.A4.8.230.0010 is designed for maintenance-free operation. However, periodic checks are recommended:

- **Cleaning:** Clean the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check terminal connections to ensure they are secure.
- **Firmware Updates:** Check the Finder website or app for any available firmware updates for improved functionality or bug fixes.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on.	No power supply or incorrect wiring.	Check power connections (A1, A2) and ensure power is supplied. Verify wiring against the diagram.
Program not executing.	Incorrect program settings or manual override active.	Review program settings via joystick or app. Check for any active manual override functions. Ensure current date/time is correct.

Problem	Possible Cause	Solution
NFC transfer fails.	Smartphone not NFC-enabled, app not open, or poor contact.	Ensure your smartphone has NFC enabled. Open the Finder Toolbox app. Hold the phone directly over the NFC symbol on the device.
Astronomical function inaccurate.	Incorrect location (postcode/coordinates) or time zone setting.	Verify the entered postcode or coordinates. Check the time zone setting.

If the problem persists, please contact Finder technical support.

8. TECHNICAL SPECIFICATIONS
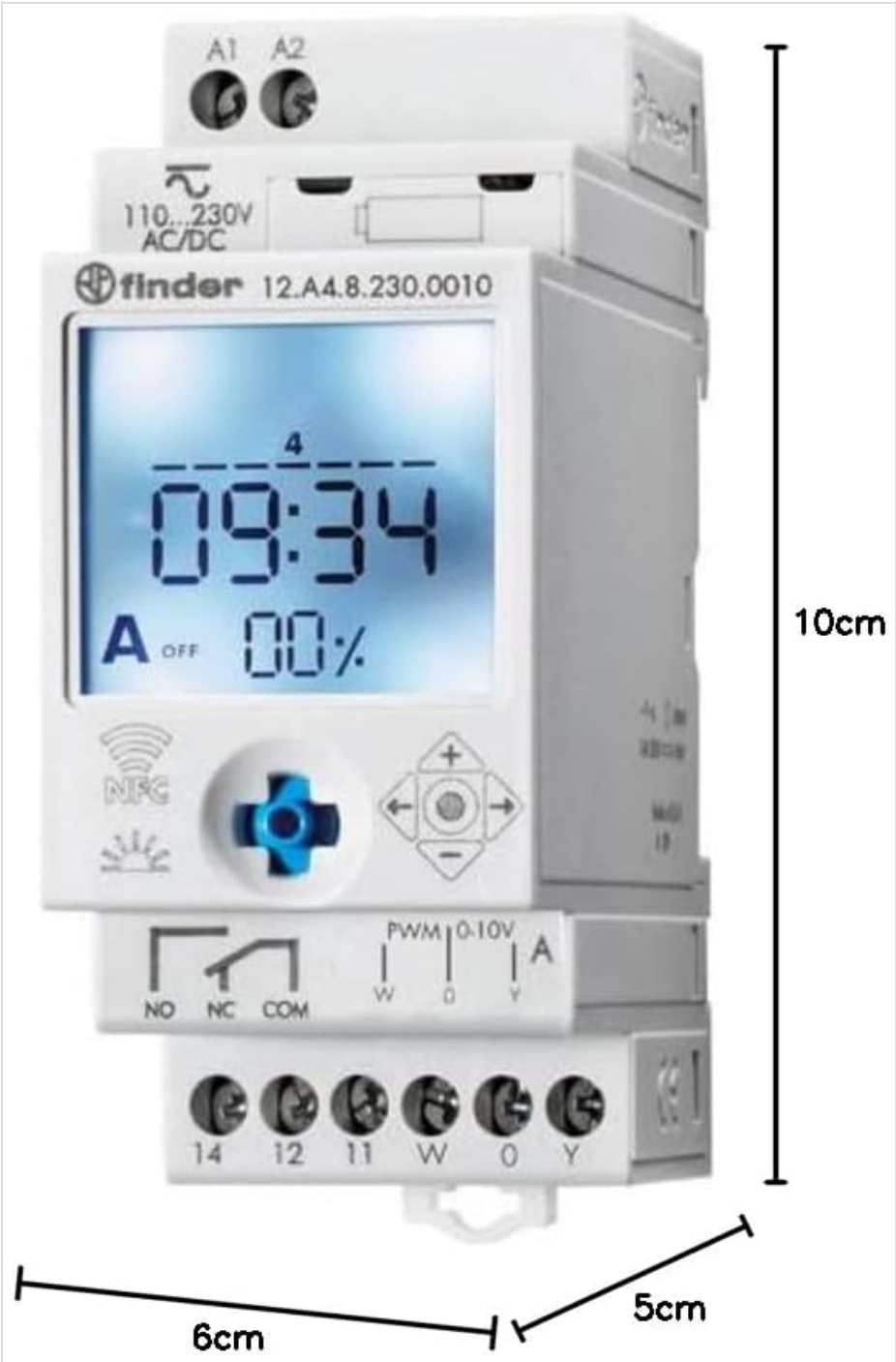
Figure 3: Dimensions of the Finder 12.A4.8.230.0010 Time Clock, showing approximate measurements of 10cm height, 6cm width, and 5cm depth.

Feature	Detail
Brand	Finder
Model Number	12.A4.8.230.0010
Dimensions (H x W x D)	10 x 6 x 5 cm
Weight	70 g
Supply Voltage	110-230 V AC/DC
Output Contact	1 changeover contact, 16 A / 250 V AC (AC1)
Analog Output	0-10 V or PWM
Contact Material	AgSnO2
Max. Inrush Current	120 A for 5 ms
Min. Switching Time	1 minute
Max. Switching Power (230 V AC1)	4000 VA
Human Interface Input	Buttons (Joystick)
Batteries Required	No
Compatible with	Power supplies/ballasts with 0-10 V or PWM inputs, or Slave dimmers Type 15.11

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Finder website or contact your local distributor. Keep your purchase receipt as proof of purchase.

Manufacturer: Finder

Product on Amazon.es since: May 24, 2021

Related Documents - 12.A4.8.230.0010

[Finder 12.61/12.62 Digital Time Switch - Programming and Operation Manual](#)
Comprehensive guide to the Finder 12.61 and 12.62 digital time switches, detailing daily/weekly programming, NFC connectivity with the Finder Toolbox app, display indicators, settings, programming examples, manual modes, and program deletion. Includes technical specifications and wiring information.

	[Finder 12.51 Digital Time Switch: Programming and Operation Guide](#) Comprehensive guide to the Finder 12.51 digital time switch, covering wiring, display legend, settings, daily/weekly programming, manual mode, battery replacement, and NFC functionality for electrical installations.
	[Finder 12.A1/A2 Digital Astro Time Switch - User Manual](#) Comprehensive user manual for the Finder 12.A1/A2 Digital Astro Time Switch, detailing NFC programming, display indicators, setup procedures, programming modes (Astro ON/OFF, ON/OFF, Pulse), manual controls, program deletion, and technical specifications. Includes guidance on installation and compliance.
	[Finder Time Switches 16 A: Series 12 Product Catalog and Technical Data](#) Comprehensive guide to Finder's Series 12 Time Switches (16 A), covering mechanical, digital, and astro time switches. Includes technical specifications, ordering information, wiring diagrams, and programming details.
	[Finder 12.A1/A2 Digital Astro Time Switch with NFC Technology](#) User manual for the Finder 12.A1 and 12.A2 digital astro time switches. Learn how to program, set the time, configure holiday programs, and utilize manual override functions using NFC technology and the Finder Toolbox app.
	[Finder 12.A1/A2 Digital Astro Time Switch with NFC - User Manual and Specifications](#) Comprehensive guide to the Finder 12.A1 and 12.A2 Digital Astro Time Switches, detailing features, programming, manual operation, technical specifications, and installation. Programmable via NFC and the Finder Toolbox app.