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Fockety Fockety42g07h65m1

Fockety Digital Temperature Data Logger Recorder User Manual

Model: Fockety42g07h65m1

1. PRODUCT OVERVIEW

The Fockety Digital Temperature Data Logger Recorder is an advanced multi-channel paperless recording instrument designed for industrial and scientific applications. It allows for real-time monitoring and logging of various environmental and process parameters such as temperature, pressure, current, voltage, level, and humidity. Equipped with a high-resolution LCD display, it provides clear visualization of data trends and historical records, ensuring precise control and analysis of field conditions.



Figure 1.1: The Fockety Digital Temperature Data Logger Recorder shown with its included accessories, including mounting brackets, screws, and a slot screwdriver.

2. SPECIFICATIONS

This section details the technical specifications of the Fockety Digital Temperature Data Logger Recorder.

Feature	Specification
Power Supply	AC100-240V, 50HZ
Power Consumption	10W
Display	4-inch Color LCD screen
Resolution	800x480 Resolution

Feature	Specification
Measurement Channels	Six universal analog inputs
Measurement Accuracy	0.2%F.S
Sampling Period	1 Second
ESD Protection	Discharge: 4000V, Air Discharge: 8000V
Operating Temperature	-10~60°C
Working Humidity	0~85%RH (no condensation)
Recording Intervals	1s, 2s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min, 30min, 1hr
Data Memory	128 Mb, 900,000 records
Communication Interface	RS485 (RTU protocol), USB 2.0
Print Interface	1 Channel, micro printer, 3.3V TTL level
Material	Plastic

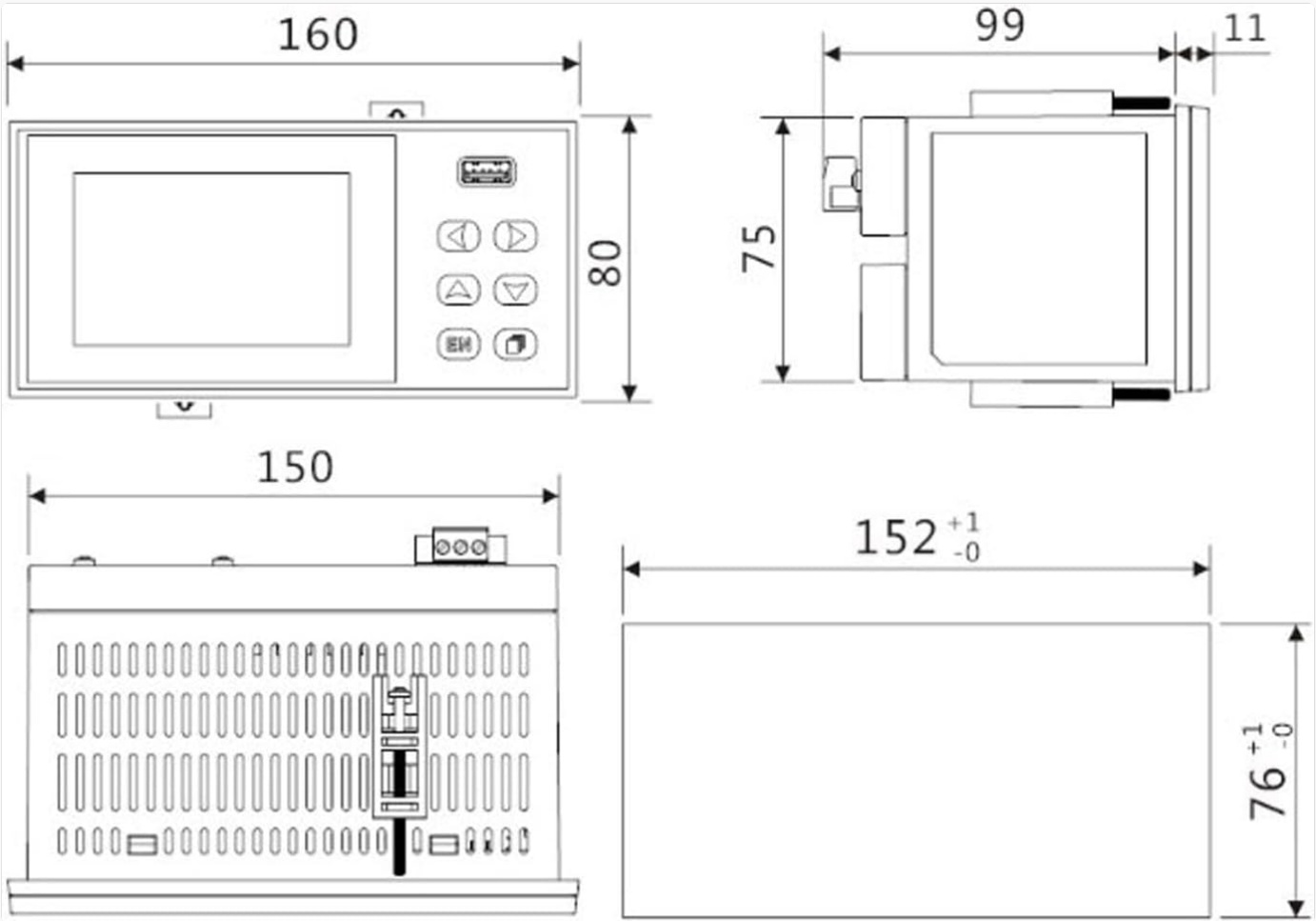


Figure 2.1: Dimensional drawing of the recorder, showing front, side, and top views with measurements in millimeters.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Paperless Recorder
- 1 x Slot Screwdriver
- 4 x Mounting Bracket
- 2 x Screw
- 1 x User Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the data logger. Please follow these steps carefully.

4.1 Mounting the Recorder

1. Identify a suitable location for installation, ensuring it is within the specified operating temperature and humidity ranges, and away from excessive vibration or electromagnetic interference.
2. Use the provided mounting brackets and screws to secure the recorder into a panel cutout or other appropriate mounting surface. Refer to the dimensional drawing in Section 2 for cutout dimensions.

4.2 Electrical Connections

Before making any electrical connections, ensure the power supply is disconnected to prevent electric shock or damage to the device.

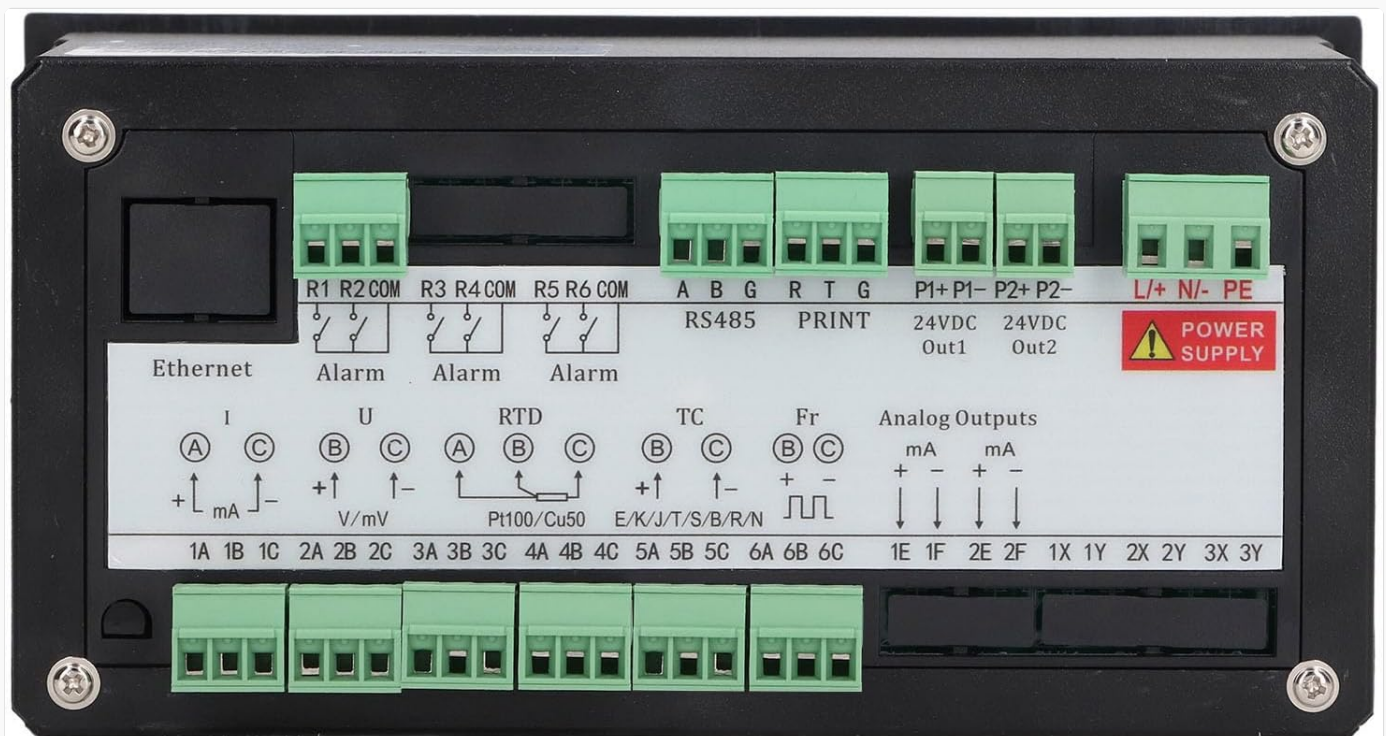


Figure 4.1: Rear view of the recorder displaying the terminal block for power, alarm, RS485, print, analog inputs (current, voltage, RTD, TC), and analog outputs.

- **Power Supply (L+/N-/ PE):** Connect the AC100-240V, 50HZ power supply to the designated terminals. Ensure proper grounding.
- **Alarm Outputs (R1, R2, R3):** Connect external alarm devices to these relay outputs as required.
- **Analog Inputs (I, U, RTD, TC):** Connect your industrial sensors (current transmitters, voltage sensors, RTD sensors, thermocouples) to the corresponding input terminals. The device supports various signal types including 0-

5V, 0-100mV, 4-20mA, 0-20mA, Thermocouples (E/K/J/T/S/B/R/N), and RTD (Pt100/Cu50). Ensure correct polarity and wiring for each sensor type.

- **RS485 (A, B, G, T):** For RS485 communication, connect to compatible devices using the standard RTU protocol.
- **Print (R, T, G):** Connect a micro printer (3.3V TTL level interface) if hardcopy reports are desired.
- **Analog Outputs (mA):** Connect external devices that require analog output signals.
- **USB (USB 2.0):** The USB port is located on the front panel, typically used for data export to a U disk.

4.3 Initial Power On

1. After all connections are securely made, connect the power supply.
2. The device will power on and initiate a preheat period of approximately 30 minutes to ensure stable and accurate readings.
3. The LCD display will show the startup screen, followed by the main measurement interface.

5. OPERATING INSTRUCTIONS

This section provides guidance on operating the Fockety Digital Temperature Data Logger Recorder.

5.1 Display and Navigation

Multiple Interface Displays

Multiple Channels, Real time Monitoring



Figure 5.1: The recorder's front panel with the 4-inch LCD display and navigation buttons (Up, Down, Left, Right, C, OK).

The 4-inch color LCD display provides a clear interface for viewing real-time data, historical curves, and system settings. Navigation is performed using the buttons located on the right side of the display:

- **Arrow Buttons (Up, Down, Left, Right):** Used for navigating menus, adjusting values, and scrolling through data.
- **'C' Button:** Typically used for 'Cancel' or 'Clear' functions, or to return to the previous menu.
- **'OK' Button:** Used to confirm selections or enter sub-menus.

5.2 Real-time Monitoring

Upon startup, the device defaults to a real-time monitoring screen, displaying current values from connected channels. You can switch between different display modes (e.g., numerical values, bar graphs, curve charts) using the navigation buttons.

31 Signal Compatible



Figure 5.2: The display showing a multi-channel curve chart, illustrating the device's ability to visualize data trends over time for various signal types.

The device can accurately display real-time and historical curves, allowing users to easily track trends in production or experimental processes.

5.3 Data Logging and Storage

The recorder automatically logs data based on the configured recording interval. The device has 128MB of internal memory, capable of storing up to 900,000 records. The recording duration varies depending on the selected interval:

- At a 1-second interval, data can be recorded for approximately 10 days.
- Longer intervals (e.g., 1 hour) allow for significantly extended recording durations, up to 15 years.

The recording duration is independent of the number of active channels.

5.4 Configuration Settings

Access the system settings menu using the navigation buttons to customize parameters such as:

- **Sampling Interval:** Adjust the frequency of data recording.
- **Alarm Ranges:** Set upper and lower thresholds for each channel. The device stores 256 alarm records.
- **Channel Configuration:** Define sensor types and scaling for each input channel.
- **Date and Time:** Set the internal clock.
- **Display Settings:** Adjust brightness, contrast, or display mode.

5.5 Data Export and Reporting

The device features a built-in USB 2.0 port. To export data or print reports:

1. Insert a USB flash drive into the USB port.
2. Navigate to the data export menu on the device.
3. Select the desired data range or report type for export.
4. The device can generate reports directly to the USB drive, which can then be connected to a PC for viewing or printing. No special software is required on the PC.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your data logger.

- **Cleaning:** Wipe the exterior of the device with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used. Avoid abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the device operates within its specified temperature and humidity ranges. Avoid exposure to direct sunlight, extreme temperatures, or high humidity.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates that may improve performance or add new features.

7. TROUBLESHOOTING

This section addresses common issues you might encounter and provides potential solutions.

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose power connection; faulty power source.	Check power cable connection. Verify power outlet is functional. Ensure correct voltage is supplied.
Display is blank or unreadable.	Power issue; display settings; hardware malfunction.	Ensure device is powered on. Adjust display brightness/contrast if applicable. If problem persists, contact support.
No data being recorded.	Incorrect sensor connection; incorrect channel configuration; memory full; recording paused.	Verify sensor wiring and type in settings. Check available memory. Ensure recording is active.
Inaccurate readings.	Sensor calibration issue; environmental interference; incorrect scaling.	Calibrate sensors if necessary. Relocate device away from interference. Check channel scaling settings.
USB data transfer fails.	Incompatible USB drive; faulty USB port; incorrect export procedure.	Try a different USB drive (FAT32 format recommended). Ensure correct export steps are followed.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Fockety customer support for further assistance.

8. WARRANTY AND SUPPORT

Fockety provides quality assurance for this digital data logger. The product comes with a **24-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or any inquiries regarding the product, please refer to the contact information provided with your purchase documentation or visit the official Fockety website. Please have your product model number (Fockety42g07h65m1) and purchase details ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question